

<p>Action / Plot Alicia starts her average day with breakfast</p> <p>camera / transitions medium - close up shot</p> <p>Audio background music</p>	<p>Action / Plot Alicia walks out doorway</p> <p>camera / transitions behind the shoulder</p> <p>Audio background music</p>	<p>Action / Plot The interviewee is introduced and is asked the first question</p> <p>camera / transitions above shot of person sitting at a lower level</p> <p>Audio voices of the interview</p>
TIME 00 : 00 : 00 : 00	TIME 00 : 00 : 10 : 00	TIME 00 : 00 : 17 : 00
<p>Action / Plot Alicia is looking out car, that's going to first destination</p> <p>camera / transitions POV: Horizon is horizontal line across middle of screen</p> <p>Audio voiceover of interview</p>	<p>Action / Plot The arrival at the 1st hotel</p> <p>camera / transitions (POV.) angled room shot</p> <p>Audio background music (possible overlap of interview)</p>	<p>Action / Plot Alicia walks through airport</p> <p>camera / transitions wide shot, perspective</p> <p>Audio background music</p>
TIME 00 : 00 : 37 : 00	TIME 00 : 00 : 40 : 00	TIME 00 : 00 : 45 : 00
<p>Action / Plot Alicia waiting to board plane</p> <p>camera / transitions Over the shoulder</p> <p>Audio background music</p>	<p>Action / Plot Alicia's airplane takes off</p> <p>camera / transitions Focused on character close to camera (over the state)</p> <p>Audio background music</p>	<p>Action / Plot Intro of the interview with other interviewee</p> <p>camera / transitions above shot of person sitting at a lower level</p> <p>Audio voices of the interview</p>
TIME 00 : 00 : 50 : 00	TIME 00 : 00 : 55 : 00	TIME 00 : 00 : 58 : 00

Voice over continue for 25 seconds



Action / Plot
Alicia looks out window - going to destination

camera / transitions
(pov.) looking out to landscape

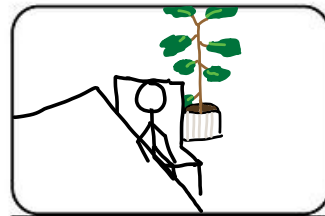
Audio
Voiceover of interview

TIME
00 : 01 : 00 : 00



Plane lands
over the shoulder
background music

00 : 01 : 10 : 00



intro of the interview
with 3rd interviewee
above shot of person
sitting at a lower level
Voices of the interview

00 : 01 : 15 : 00

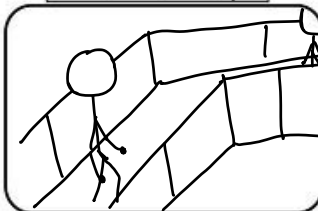


Action / Plot
Alicia walks on red-carpet to enter Universal

camera / transitions
wide shot, following character

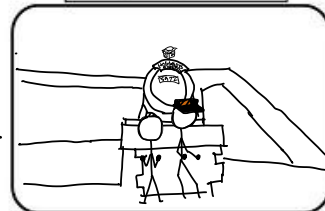
Audio
Voiceover of the interview

TIME
00 : 01 : 23 : 00



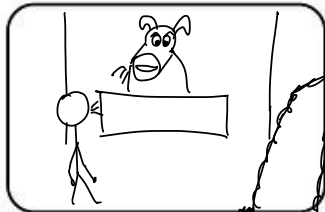
Alicia walks through line
following character - wide shot
background music

00 : 00 : 37 : 00



standing at Hogwarts Express model
medium shot
background music

00 : 00 : 45 : 00

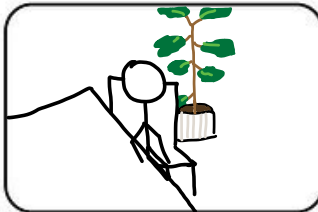


Action / Plot
Alicia interviews donkey

camera / transitions
medium shot

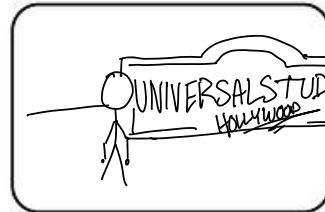
Audio
voices of conversation

TIME
00 : 01 : 50 : 00



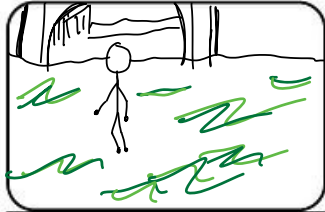
The interviewee is introduced and is asked the second question
above shot of person sitting at a lower level
voices of the interview

01 : 02 : 10 : 00



Alicia concludes visit to Universal studios
medium shot
Voices of interview

00 : 02 : 20 : 00

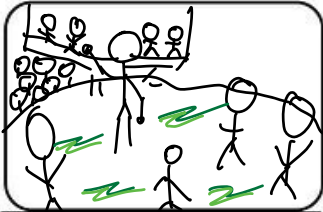


Action / Plot
Alicia is walking to concert

camera / transitions
medium shot

Audio
background music

TIME
00 : 02 : 25 : 00

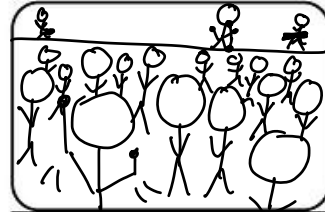


Action / Plot
Alicia is listening to english beat

camera / transitions
medium shot

Audio
actual audio (band playing)

TIME
00 : 00 : 27 : 00

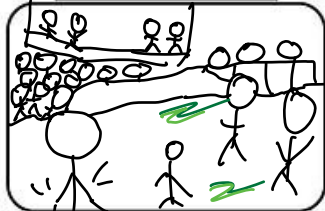


Action / Plot
Alicia is watching R.I. perform

camera / transitions
medium-close up

Audio
actual audio (band playing)

TIME
00 : 02 : 35 : 00

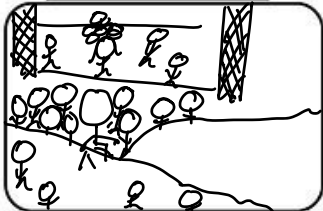


Action / Plot
Alicia is singing + dancing along to victor + dennis

camera / transitions
medium shot

Audio
actual audio (band playing)

TIME
00 : 02 : 43 : 00

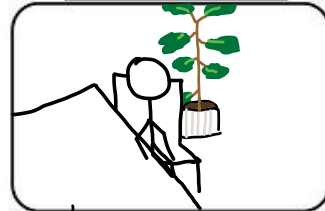


Action / Plot
Alicia is watching blonde.

camera / transitions
above-medium shot

Audio
actual audio (band's music)

TIME
00 : 02 : 50 : 00

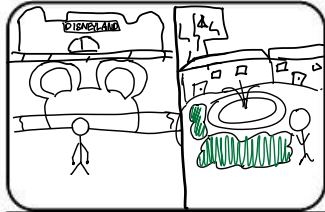


Action / Plot
The interviewee is introduced and is asked the second question

camera / transitions
above shot of person sitting at a lower level

Audio
voices of the interview

TIME
00 : 02 : 55 : 00

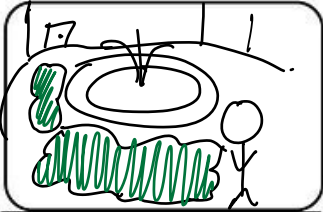


Action / Plot
Alicia is standing in front of disneyland sign

camera / transitions
wide shot

Audio
interview voiceover

TIME
00 : 03 : 10 : 00

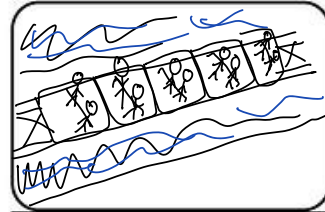


Action / Plot
Alicia is in california adventure park

camera / transitions
video slides in to fill full screen, from prev. split screen

Audio
background music

TIME
00 : 03 : 13 : 00

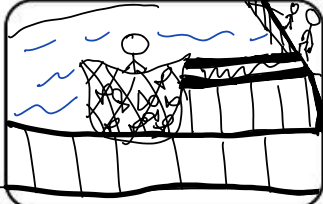
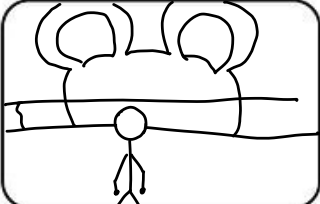
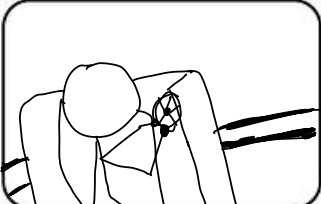
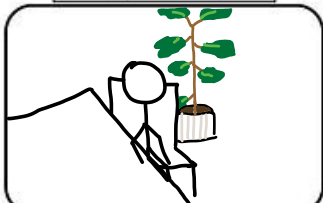

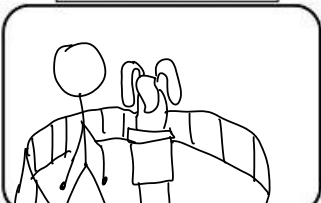

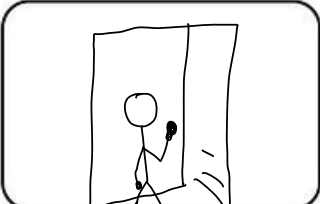
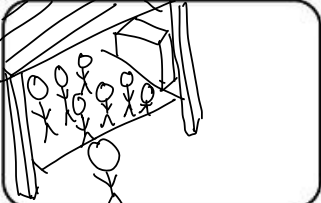


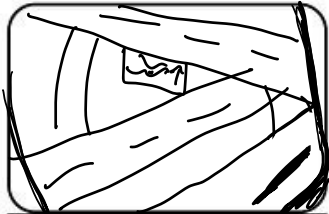
Action / Plot
Alicia is in incredicoaster as it takes off

camera / transitions
wide shot

Audio
actual sounds of coaster taking off (by light background music)

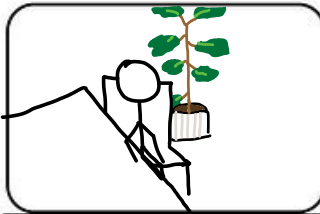
TIME
00 : 03 : 20 : 00

		
Action / Plot Alicia is standing in bag of fish at end of dock/pier	Alicia enters disneyland	Alicia's driving a car at the auto ride
camera / transitions medium/wide shot	medium shot	over the shoulder
Audio background music	background music	actual audio of clip
TIME 00 : 03 : 23 : 00	00 : 03 : 25 : 00	00 : 03 : 30 : 00
		
Action / Plot The interviewee is introduce and is asked the second question	Alicia is controlling milleium falcon	standing near goofy statue
camera / transitions above shot of person sitting at a lower level	wide shot	medium shot
Audio voices of the interview	voiceover of interview	background music
TIME 00 : 03 : 45 : 00	00 : 03 : 50 : 00	00 : 03 : 55 : 00
		
Action / Plot Alicia is spinning at connectial of parks	Alicia enters her cousins house	Alicia attends her casits 16th b-day party
camera / transitions wide shot	POV. medium shot	wide/medium shot
Audio background music	background music	background music
TIME 00 : 04 : 00 : 00	00 : 04 : 08 : 00	00 : 04 : 10 : 00



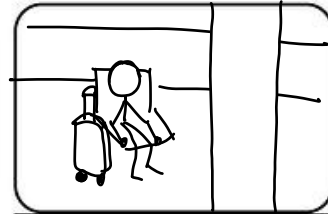
Action / Plot
Alicia is driving to airport
camera / transitions
(POV.) landscape - wide shot
Audio
background music

TIME 00 : 04 : 14 : 00



The interviewee is introduced and is asked the third question
above shot of person sitting at a lower level
voices of the interview

00 : 04 : 20 : 00



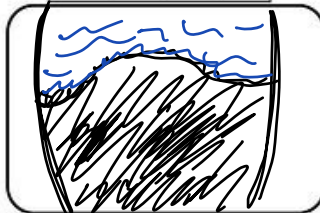
Alicia is waiting for plane to arrive
medium - close up shot
Voiceover of interview

00 : 04 : 26 : 00



Action / Plot
Alicia's airplane takes off
camera / transitions
focused on character close to camera (over the shoulder)
Audio
background music

TIME 00 : 04 : 30 : 00



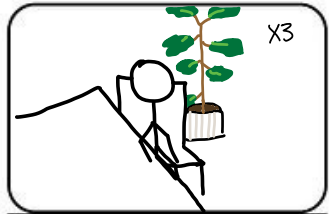
Alicia sees coastline while plane is in the sky
(POV.) bird's eye view - hand-drawn
background music

00 : 04 : 33 : 00



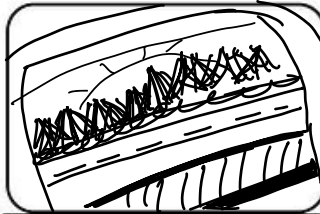
Plane lands
over the shoulder
background music

00 : 04 : 36 : 00



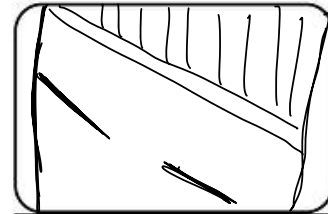
Action / Plot
The interview comes to a conclusion
camera / transitions
above shot of person sitting at a lower level
Audio
voices of the interview

TIME 01 : 04 : 40 : 00



Alicia looks out car and sees sunset
(POV.) medium-landscape
background music

00 : 04 : 50 : 00



Alicia looks outside to see second arrow quiz
(POV.) medium-close up shot
background music

00 : 04 : 52 : 00

		<p>THE END</p>	
Action / Plot	Alicia walks into her house, and end Vester		
camera / transitions	medium shot		
Audio	background music		
TIME	00 : 04 : 65 : 00	00 : 05 : 00 : 00	:
Action / Plot			
camera / transitions			
Audio			
TIME	:	:	:
Action / Plot			
camera / transitions			
Audio			
TIME	:	:	:

Matching Equations & Graphs

Refer to Section 4.4

Notes:

When we are given a graph and need to match it to an equation, we create tables of values based on the equations. These tables of values will give us coordinates. Which ever equation produces coordinates that equal the coordinates of the graph, is the matching equation.

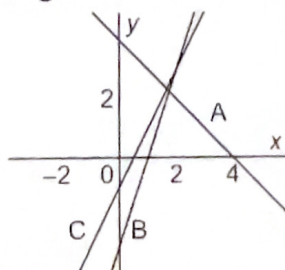
Example:

Match each equation with a graph on this grid.

a) $y = 2x - 1$

b) $y = -x + 4$

c) $y = 3x - 3$



$y = 2x - 1$

$y = -x + 4$

$y = 3x - 3$

4.4

Matching Equations and Graphs

FOCUS

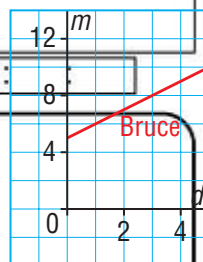
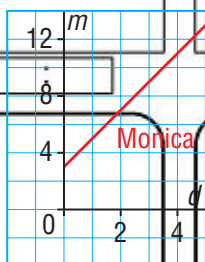
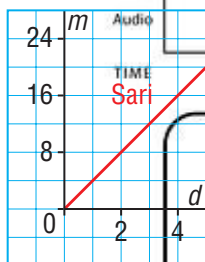
- Match equations and graphs of linear relations.



Investigate

Bruce, Monica, and Sari participate in a 5-km walk for charity.

Each student has a different plan to raise money from her or his sponsors. These graphs show how the amount of money a sponsor owes is related to the distance walked.



- Match each graph with its equation: $m = 2d + 3$ $m = 4d$ $m = d + 5$
Explain your strategy.
- Describe each person's sponsorship plan.

Reflect & Share

Compare your strategies and descriptions with those of another pair of students.

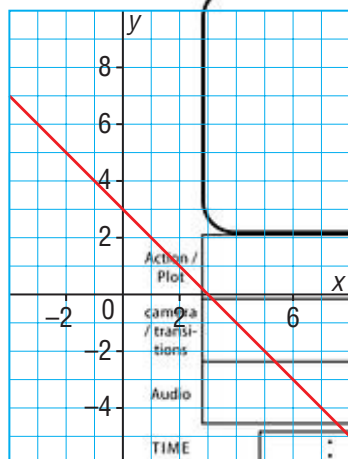
Did you use the same strategies to match each graph and its equation?
If not, explain your strategies to the other students.

Connect

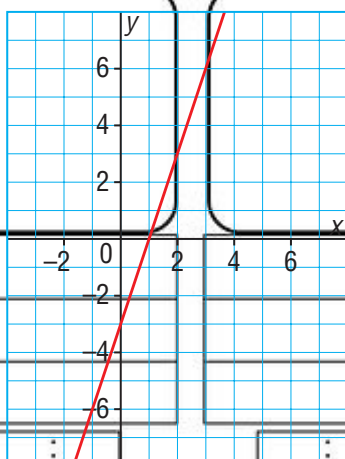
The 3 graphs below have these equations, but the graphs are not in order:

$$y = 3x + 3 \quad x + y = 3 \quad y = 3x - 3$$

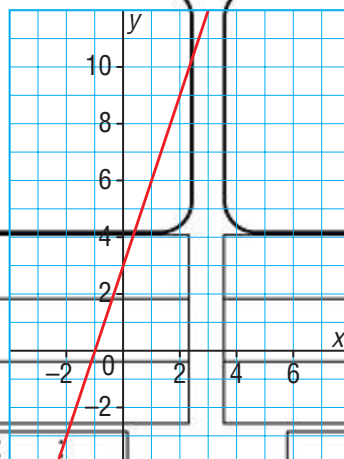
Graph A



Graph B



Graph C



To match each equation with its graph, use the equation to determine the coordinates of 3 points. Then find which graph passes through those 3 points.

► For $y = 3x + 3$

Substitute: $x = 0$

$$y = 3(0) + 3$$

$$y = 3$$

One point is: (0, 3)

Substitute: $x = 1$

$$y = 3(1) + 3$$

$$y = 6$$

One point is: (1, 6)

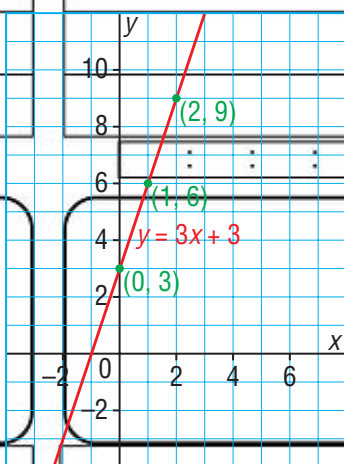
Substitute: $x = 2$

$$y = 3(2) + 3$$

$$y = 9$$

One point is: (2, 9)

The graph that passes through these 3 points is Graph C.



► For $x + y = 3$

Substitute: $x = 0$

$$0 + y = 3$$

$$y = 3$$

One point is: $(0, 3)$

Substitute: $x = 1$

$$1 + y = 3$$

$$y = 2$$

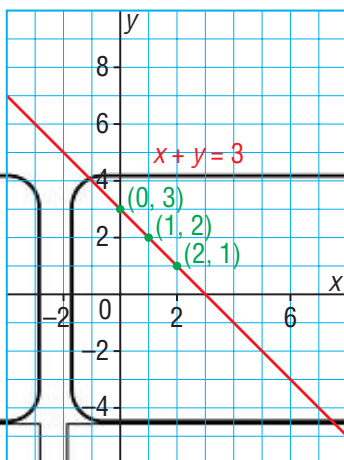
One point is: $(1, 2)$

Substitute: $x = 2$

$$2 + y = 3$$

$$y = 1$$

One point is: $(2, 1)$



The graph that passes through these 3 points is Graph A.

So, the equation $y = 3x - 3$ must match Graph B. Substitute to check.

Substitute: $x = 0$

$$y = 3(0) - 3$$

$$y = -3$$

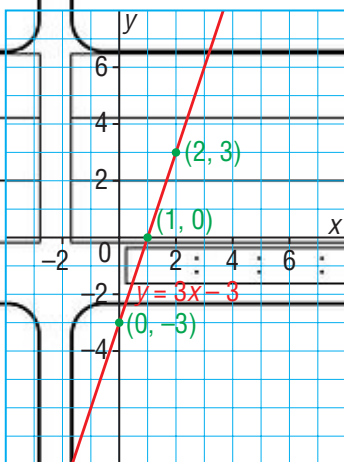
One point is: $(0, -3)$

Substitute: $x = 1$

$$y = 3(1) - 3$$

$$y = 0$$

One point is: $(1, 0)$



Substitute: $x = 2$

$$y = 3(2) - 3$$

$$y = 3$$

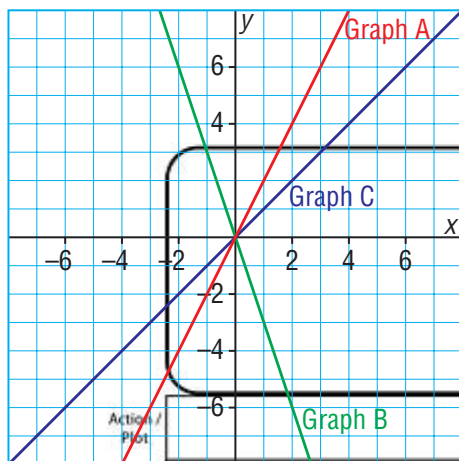
One point is: $(2, 3)$

The graph that passes through these 3 points is Graph B.

Example 1

Matching Equations with Graphs that Pass through the Origin

Match each graph on the grid with its equation below.



$$y = x$$

$$y = 2x$$

$$y = -3x$$

A Solution

Rewrite $y = x$ as $y = 1x$. The coefficient of x represents the pattern of the points on the graph.

In the equation $y = 1x$, the 1 indicates that when x increases by 1 unit, y also increases 1 unit.

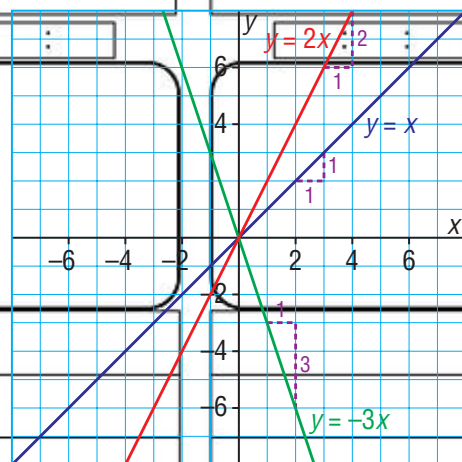
This matches Graph C.

In the equation $y = 2x$, the 2 indicates that when x increases by 1 unit, y increases by 2 units.

This matches Graph A.

In the equation $y = -3x$, the -3 tells us that when x increases by 1 unit, y decreases by 3 units.

This matches Graph B.

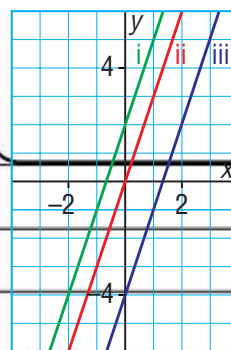


Example 2

Identifying a Graph Given Its Equation

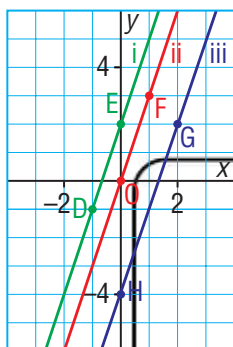
Which graph on this grid has the equation $y = 3x - 4$?

Justify the answer.



A Solution

Pick 2 points on each graph and check to see if their coordinates satisfy the equation.



Two points on Graph i have coordinates D(-1, -1) and E(0, 2).

Substitute $x = -1$ and $y = -1$ in $y = 3x - 4$.

Left side: $y = -1$ Right side: $3x - 4 = 3(-1) - 4 = -7$

The left side does not equal the right side.

So, these coordinates do not satisfy the equation and

Graph i does not have equation $y = 3x - 4$.

Two points on Graph ii have coordinates O(0, 0) and F(1, 3).

Substitute $x = 0$ and $y = 0$ in $y = 3x - 4$.

Left side: $y = 0$ Right side: $3x - 4 = 3(0) - 4 = -4$

The left side does not equal the right side.

So, these coordinates do not satisfy the equation and Graph ii does not have equation $y = 3x - 4$.

Two points on Graph iii have coordinates G(2, 2) and H(0, -4).

Substitute $x = 2$ and $y = 2$ in $y = 3x - 4$.

Left side: $y = 2$ Right side: $3x - 4 = 3(2) - 4 = 2$

The left side does equal the right side, so the coordinates of G satisfy the equation.

Substitute $x = 0$ and $y = -4$ in $y = 3x - 4$.

Left side: $y = -4$ Right side: $3x - 4 = 3(0) - 4 = -4$

The left side does equal the right side, so the coordinates of H satisfy the equation.

Since both pairs of coordinates satisfy the equation, Graph iii has equation $y = 3x - 4$.

Discuss the ideas

1. When we match an equation to a graph by determining coordinates of points on the graph, why is it helpful to check 3 points, even though 2 points are enough to identify a line?
2. When we choose points on a graph to substitute their coordinates in an equation, what is an advantage of choosing the points where the graph intersects the axes?

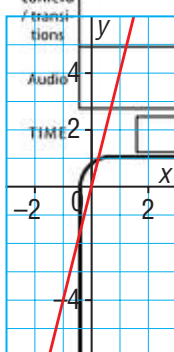
Practice

Check

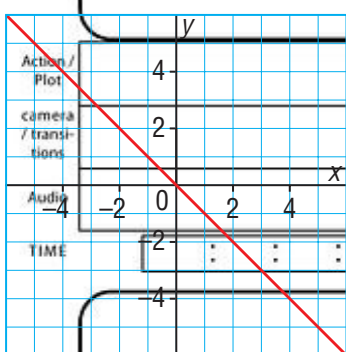
3. Match each equation with a graph below.

a) $y = 2x$ b) $y = 4x$ c) $y = -x$

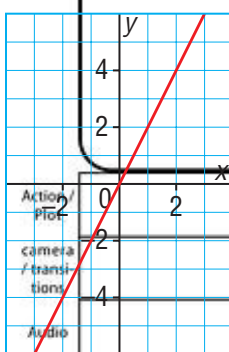
i)



ii)



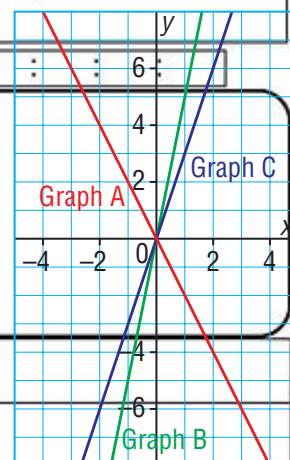
iii)



Apply

4. Match each equation with a graph on the grid below.

a) $y = 3x$ b) $y = 5x$ c) $y = -2x$

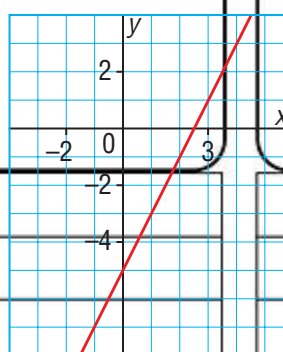


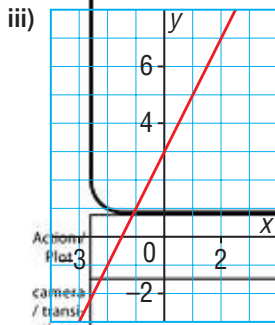
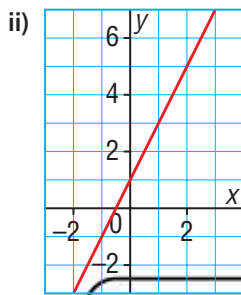
5. Match each equation with a graph below.

Which strategy did you use?

a) $y = 2x + 1$ b) $y = 2x + 3$ c) $y = 2x - 5$

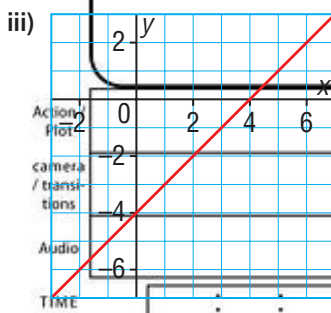
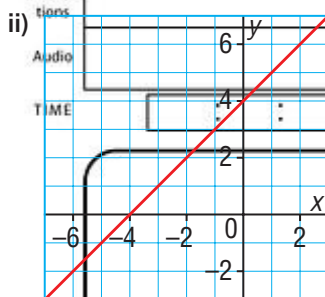
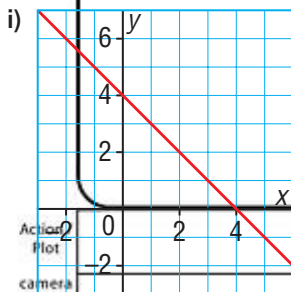
i)





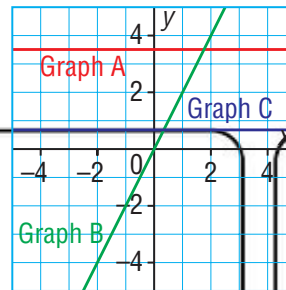
6. Match each equation with a graph below.
Justify your answers.

a) $x + y = 4$ b) $x - y = 4$ c) $x - y = -4$

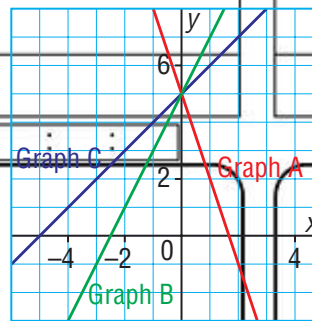


7. Match each equation with its graph below.
Explain your strategy.

a) $y = 2x$ b) $2y = 7$ c) $3y = 2$



8. Which graph on this grid has equation $y = 2x + 5$? Justify your answer.



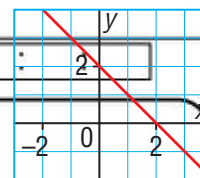
9. Which equation describes each graph?
Justify your answers.

a) i) $y = 2x + 1$

ii) $y = 2x + 3$

iii) $y = x - 2$

iv) $y = -x + 2$

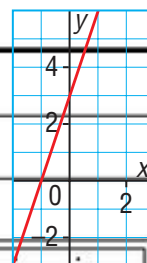


b) i) $x + 3y = 1$

ii) $3x - y = -3$

iii) $3x + y = 1$

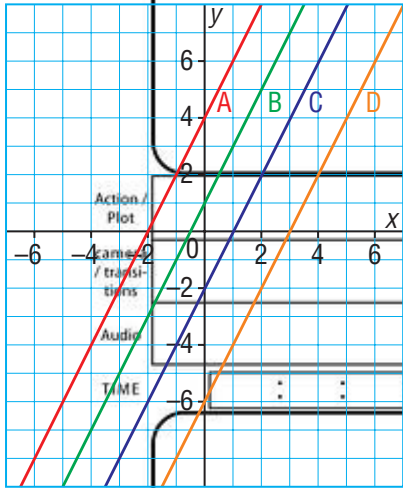
iv) $3x - y = 3$



10. a) Write the equations of 3 different lines.
 b) Graph the lines on the same grid.
 Write the equations below the grid.
 c) Trade grids with a classmate. Match your classmates' graphs and equations.

11. Assessment Focus

- a) How are these 4 graphs alike?



- b) How are the graphs different?
 c) Match each graph to its equation.

i) $y = 2x - 2$

ii) $y = 2x + 4$

iii) $2x - y = 6$

iv) $2x - y = -1$

- d) Did you use the same strategy each time?

If your answer is yes, what strategy did you use and why?

If your answer is no, explain why you used different strategies.

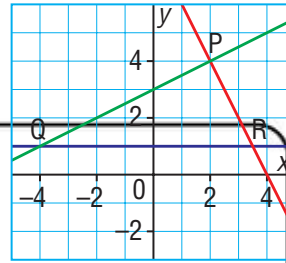
Show your work.

Reflect

What strategies have you learned to match an equation with its graph?

When might you use each strategy? Include examples in your explanation.

12. The lines on the grid below intersect to form $\triangle PQR$. The equations of the lines are: $y = 1$, $2x + y = 8$, and $2y - x = 6$



What is the equation of the line on which each side of the triangle lies?

a) PQ

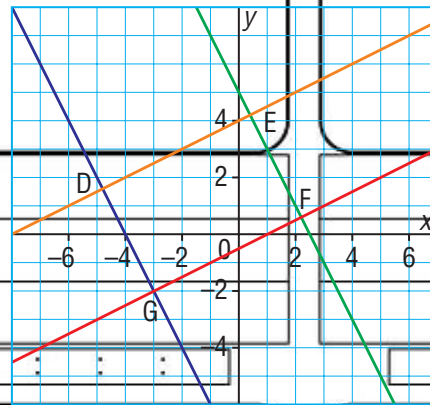
b) QR

c) RP

Take It Further

13. The lines on the grid below intersect to form rectangle DEFG.

The equations of the lines are: $y = \frac{1}{2}x - \frac{1}{2}$, $y = -2x + 5$, $y = -2x - 8$, and $x - 2y = -8$



What is the equation of the line on which each side of the rectangle lies?

a) DE

b) DG

c) EF

d) FG