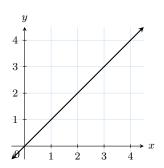
A SLOPES

A.1 FINDING SLOPES OF LINES

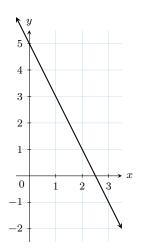
Ex 1:



Find the slope of the line:

$$slope = \boxed{}$$

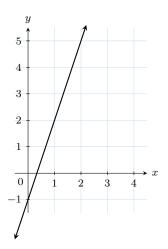
Ex 2:



Find the slope of the line:

$$slope =$$

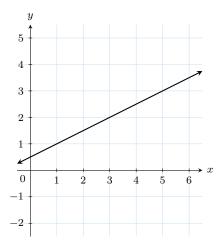
Ex 3:



Find the slope of the line:

$$slope =$$

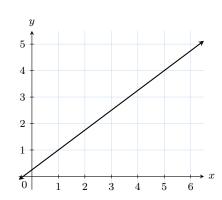
Ex 4:



Find the slope of the line:

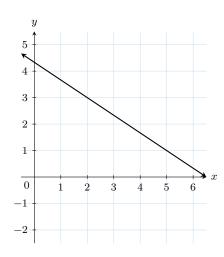
$$slope = \boxed{}$$

Ex 5:



Find the slope of the line:

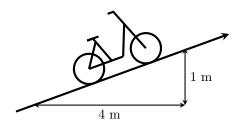
Ex 6:



Find the slope of the line:

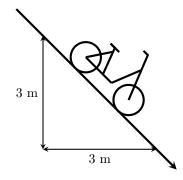
A.2 INTERPRETING SLOPE IN CONTEXT

Ex 7:



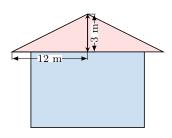
Find the slope of the road:

Ex 8:



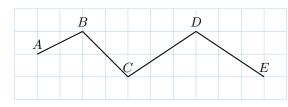
Find the slope of the road:

Ex 9:



Find the slope of the roof:

MCQ 10: You are following a trail through the mountains from point A to point E, traveling from left to right.



Identify the steepest upward segment.

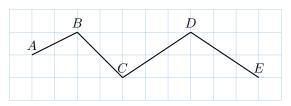
 $\Box \overline{AB}$

 $\Box \overline{BC}$

 $\Box \ \overline{CD}$

 $\Box \overline{DE}$

MCQ 11: You are following a trail through the mountains from point A to point E, traveling from left to right.



Identify the steepest downward segment.

 $\Box \overline{AB}$

 $\Box \ \overline{BC}$

 $\Box \overline{CD}$

 $\Box \overline{DE}$

B SLOPE FORMULA

B.1 CALCULATING THE SLOPE

Ex 12: For A(1, 2) and B(5, 4), find the slope of the line \overrightarrow{AB} .

Slope of
$$\overrightarrow{AB} = \boxed{}$$

Ex 13: For A(3, 0) and B(4, 4), find the slope of the line \overleftrightarrow{AB} .

Ex 14: For A(-1, 3) and B(2, -1), find the slope of the line \overrightarrow{AB} .

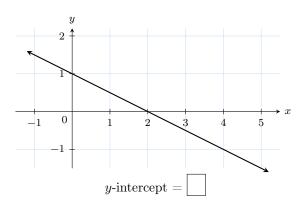
Slope of
$$\overleftarrow{AB} = \boxed{}$$

Ex 15: For C(3, 1) and D(1, 3), find the slope of the line \overrightarrow{CD} .

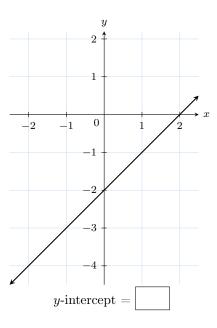
C y-INTERCEPT

C.1 FINDING THE y-INTERCEPT

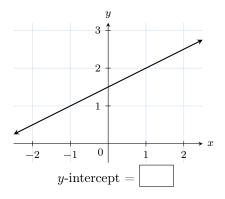
Ex 16:



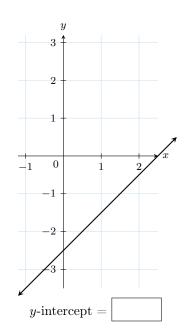
Ex 17:



Ex 18:



Ex 19:



D LINE EQUATIONS

D.1 COMPLETING A TABLE OF VALUES

Ex 20: For y = x + 3, fill in the table:

x	-2	-1	0	1	2
y					

Ex 21: For y = -2x + 1, fill in the table:

\boldsymbol{x}	-2	-1	0	1	2
y					

Ex 22: For y = 3x - 5, fill in the table:

\boldsymbol{x}	-2	-1	0	1	2
y					

Ex 23: For y = -2.5x - 2, fill in the table:

ĺ	\boldsymbol{x}	-2	-1	0	1	2
	y					

Ex 24: For y = 0.5x + 1, fill in the table:

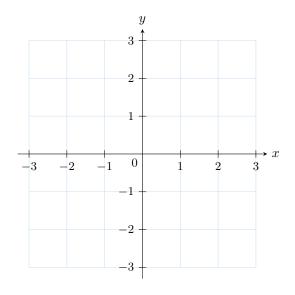
x	-2	-1	0	1	2
y					

D.2 GRAPHING A LINE FROM TWO POINTS

Ex 25: Here is a table of values for the line equation y = x - 1:

\overline{x}	0	2
y	-1	1

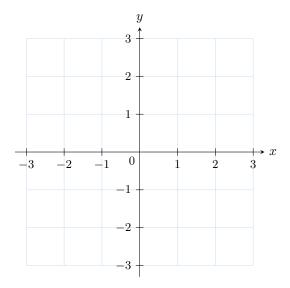
Plot the line.



Ex 26: Here is a table of values for the line equation y = 0.5x + 1:

\boldsymbol{x}	0	2
y	1	2

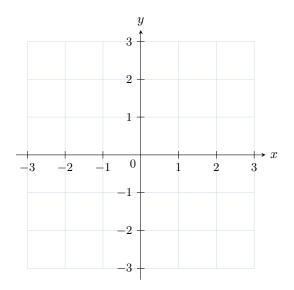
Plot the line.



Ex 27: Here is a table of values for the line equation y = -2x+2:

x	0	2
y	2	-2

Plot the line.



D.3 FINDING COORDINATE POINTS

Ex 28: Find the coordinates of the point A on the line with the equation y = 2x + 1:

$$A(1, \square)$$

Ex 29: Find the coordinates of the point A on the line with the equation y = -x + 2:

$$A(1.5, \square)$$

Ex 30: Find the coordinates of the point A on the line with the equation y = -2x + 1:

$$A(-1, \boxed{})$$

D.4 DETERMINING WHETHER A POINT IS ON A LINE

MCQ 31: Determine whether the point (3,6) lies on the line with the equation y = 2x + 1.

$$\square$$
 Yes

MCQ 32: Determine whether the point (4, -3) lies on the line with the equation y = -2x + 5.

MCQ 33: Determine whether the point (2,2) lies on the line with the equation y = x - 1.

☐ Yes

$$\square$$
 No

MCQ 34: Determine whether the point (0, -2) lies on the line with the equation y = 3x - 2.

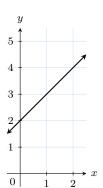
□ Yes

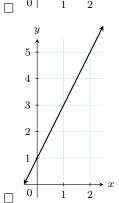
$$\square$$
 No

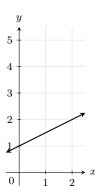
E GRAPHING LINE EQUATIONS

E.1 MATCHING EQUATIONS AND GRAPHS

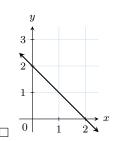
MCQ 35: Choose the graph corresponding to the line with the equation y = 2x + 1.

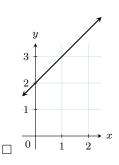


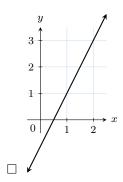




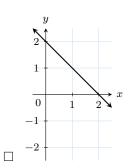
MCQ 36: Choose the graph corresponding to the line with the equation y = -x + 2.

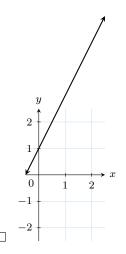


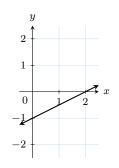




MCQ 37: Choose the graph corresponding to the line with the equation y = 0.5x - 1.

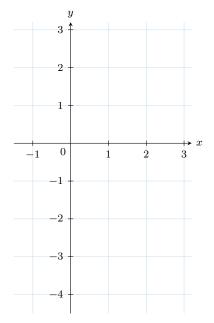




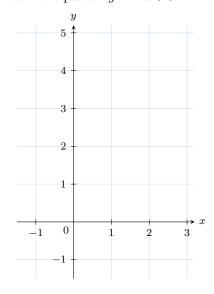


E.2 PLOTTING LINES FROM EQUATIONS

Ex 38: Plot the line equation y = 2x - 1:



Ex 39: Plot the line equation y = -x + 3:



Ex 40: Plot the line equation y = -0.5x + 2:

