Midterm Review

Evaluate when

$y = -2$ and $x = -1$.

$$x^3 - y - 4$$

Is 8 a solution?

$5a + 1 < 41$

Why / why not?

Function? Yes or No

x	y
1	7
2	7
3	7

x	y
5	1
5	2
5	10

x	y
-8	1
.5	-9
31	17

Simplify:

$\sqrt{32}$

$3\sqrt{50}$

$3\sqrt{8} + 2\sqrt{18}$

$5\sqrt{7}$

Find missing side of a right triangle.

$a=3$ $b=4$ $c=$ ___

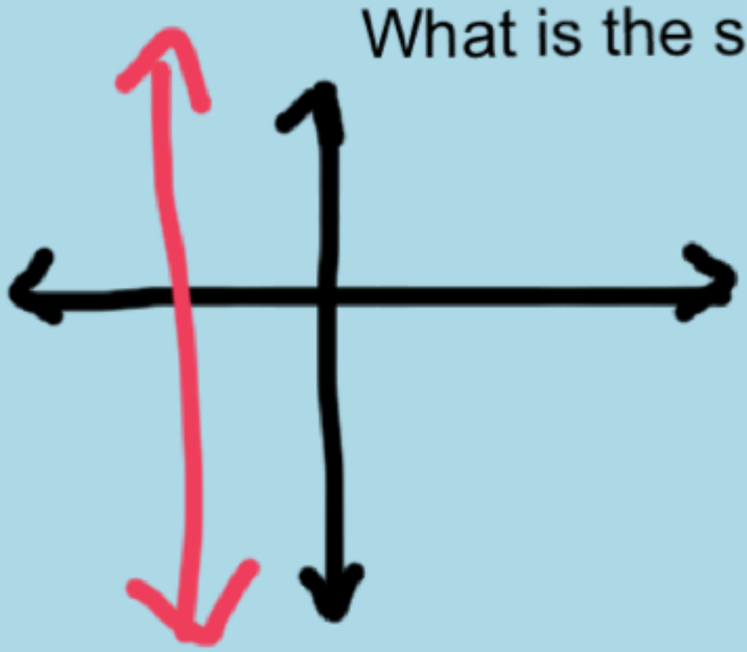
$a=5$ $b=$ ___ $c=13$

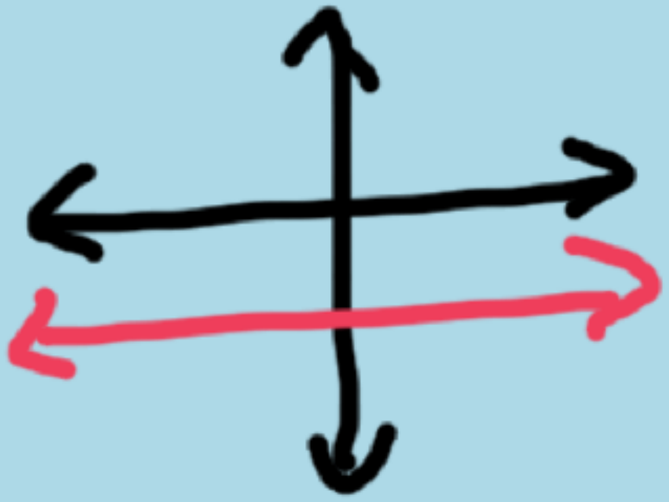
Right triangle? yes or no?

6, 10, 8

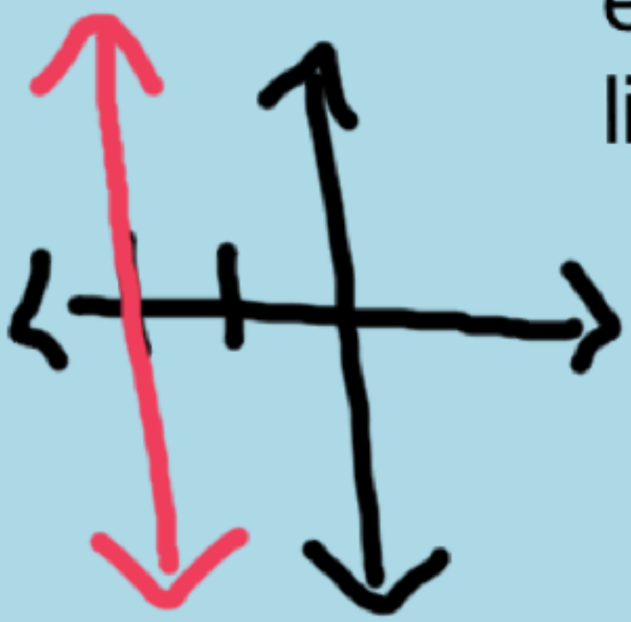
9, 10, 15

What is the slope of each of the following lines?

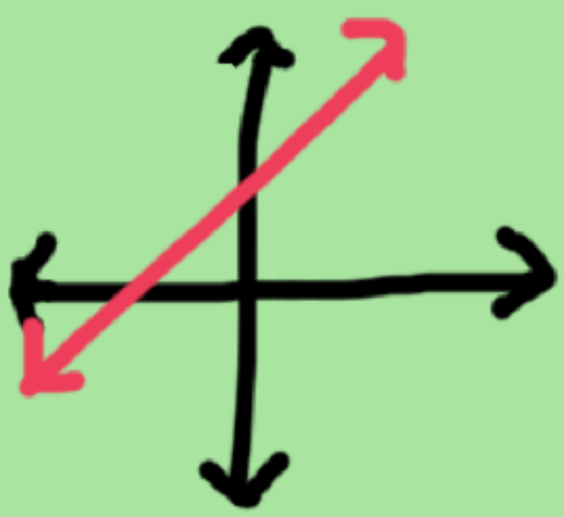


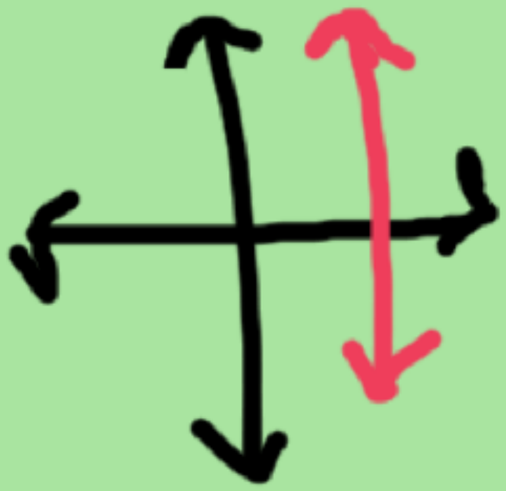


What is the equation of each of the following lines?



Which of the following graphs illustrate direct variation?





Which of the following equations represent direct variation?

$2x + 6y = 1$

$y = 7x$

$3y = 4x$

$x = 7y$

Simplify

1. $10-24\div4\cdot2+2$

2. $3\frac{1}{6}-\left(2\frac{1}{4}\cdot\frac{4}{9}\right)$

3. $\frac{8x+12}{2}$

4. $\frac{-30x+40}{-5}$

1- 14 is 7% of what number?

2- What is 40% of 80?

3- 6 is what percent of 24?

4- What is 110% of 60?

$$4x+2y+8=0$$

Write the above equation in each of the following forms.

Function form.

Slope-intercept form.

Standard form.

Answers

Page

1 -3

2 No

3 Yes. No. Yes.

4

$4\sqrt{2}$	$15\sqrt{2}$
$12\sqrt{2}$	is simplified

5
C=5
B=12

Yes
Not

6 Undefined. Zero
X=-2. Y=-2

7 No. No. Yes. No

No. Yes

8
1. 0
2. 2 1/6
3. 4x+6

4.6x-8

9
1. 200
2. 32
3. 25%
4. 66

10 Y=-2x-4. Y=-2x-4. 4x+2y=-8