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QUESTION 1

Write the equation

$y = 6.5x - 4$

in point-slope form using the point

$(2, 9)$

that the line passes through.

Enter your answer in the space provided.Use lowercase letters only)

y

$-9 = 6.5(x - 2)$ ✓

QUESTION 2

Write an equation in slope-intercept form for the line that passes through the points

$(0, -3)$

and

$(3, 9)$

.

Enter your answer in the space provided. Use lowercase letters only.

The equation for this line in slope-intercept form is

$y =$

$4x - 3$ ✓ .

QUESTION 3

Write the equation in slope-intercept form of the line shown on this graph that passes through the points

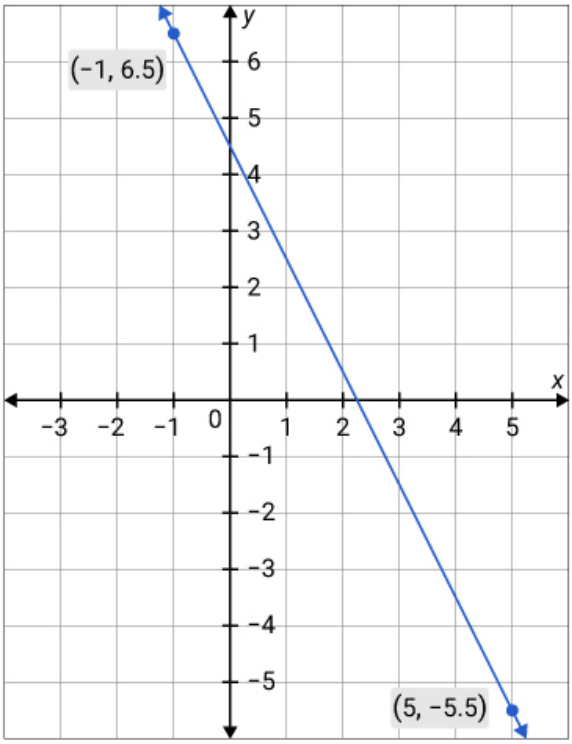
$(-1, 6.5)$

and

$(5, -5.5)$

.

Drag and drop your answers to correctly complete the equation in slope-intercept form.



$y =$

-2 ✓

$x +$

4.5 ✓

-0.5 2 -4.5

QUESTION 4

Write a linear equation in slope-intercept form for a line that passes through

$(-4, -4)$

and

$(-1, 14)$

.

Enter your answers in the spaces provided.

$y =$

6 ✓

$x +$

20 ✓

QUESTION 5

What is the linear equation in slope-intercept form that passes through the points

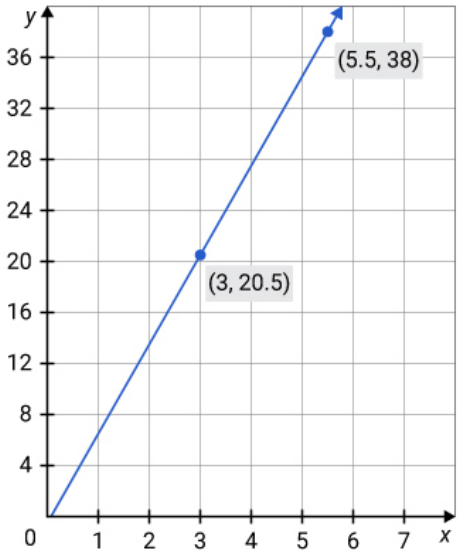
$(3, 20.5)$

and

$(5.5, 38)$

?

Drag and drop your answers to correctly complete the equation in slope-intercept form.



$y =$

7 ✓

x

-0.5 ✓

-76.5 -7 $+76.5$ $+0.5$

QUESTION 6

Write a linear equation in slope-intercept form for a line that passes through the points $(-3,-45)$ and $(3.5,33)$.

Enter your answers in the spaces provided.

$y =$ 12

$x -$ 9

QUESTION 7

Which linear equation represents the line that passes through the points $(4,1)$ and $(10,-2)$?

- $y = 2x + 18$
- $y = -2x + 22$
- $y = \frac{1}{2}x - 1$
- $y = -\frac{1}{2}x + 3$ ✓

QUESTION 8

Determine a linear equation in slope-intercept form for a line that passes through the points $\left(-2, \frac{21}{4}\right)$ and $\left(2, -\frac{27}{4}\right)$.

Select the correct answer from the drop-down menu.

$y =$

$-3x-\frac{3}{4}$ ✓

QUESTION 9

Write an equation in point-slope form for the line shown on the graph that passes through the points

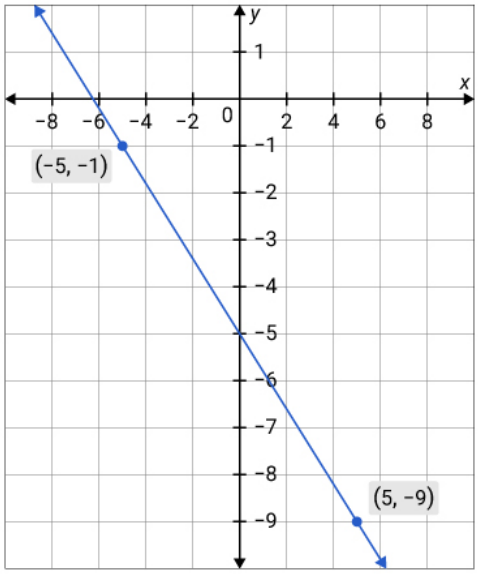
$(-5,-1)$

and

$(5,-9)$

.

Drag and drop your answers to correctly complete the equation in point-slope form.



y

$+9$ ✓

$=$

$-\frac{4}{5}$ ✓

$(x$

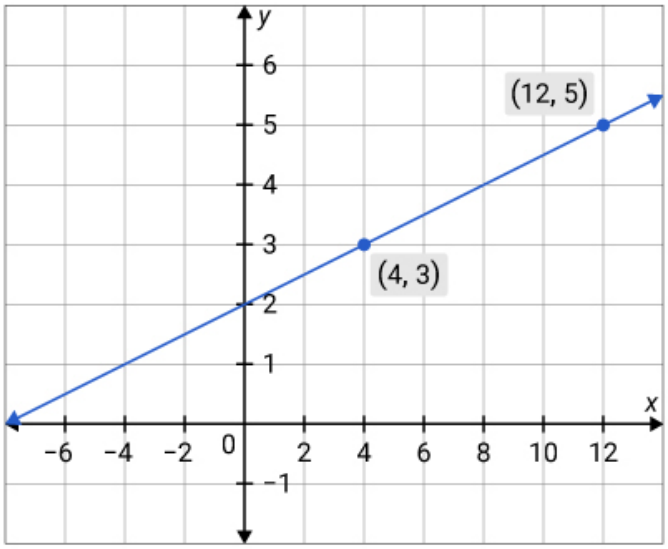
-5 ✓

$)$

$+5$ $\frac{4}{5}$ -1 -9

QUESTION 10

Determine which equation written in point-slope form represents the line shown on this graph passing through the points $(4, 3)$ and $(12, 5)$.



Select the correct answer from the drop-down menus.

$y - 3$ ✓ =

$\frac{1}{4}(x - 4)$ ✓

QUESTION 11

Which equation represents a line that passes through the points $(-6, -2)$ and $(2, 10)$?

- $y - 2 = \frac{3}{2}(x - 6)$
- $y - 6 = \frac{3}{2}(x - 2)$
- ✓ $y + 2 = \frac{3}{2}(x + 6)$
- $y + 6 = \frac{3}{2}(x + 2)$

QUESTION 12

Which equation shows a line that passes through the two points
$(-7, 2)$
and
$(-1, 4)$
?

- ○ $y + 2 = \frac{1}{3}(x - 7)$
- ✓ $y - 2 = \frac{1}{3}(x + 7)$
- ○ $y - 2 = 3(x + 7)$
- ○ $y + 7 = -\frac{1}{3}(x - 2)$

QUESTION 13

Write an equation in point-slope form for the line shown on the graph.

Drag and drop your answers to correctly complete the linear equation in point-slope form.
y

+ 10 ✓

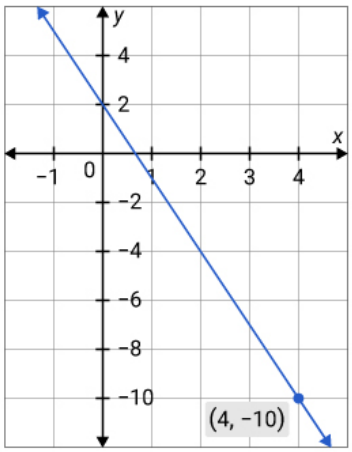
=

− 3 ✓

(x

− 4 ✓

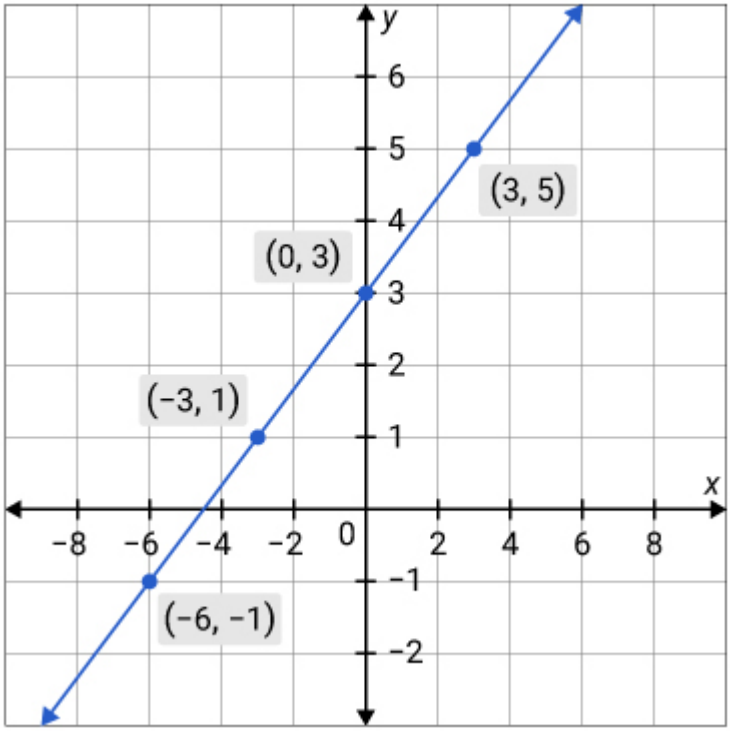
)



3 | − 10 | + 4

QUESTION 14

Which equations in point-slope form represent the line shown on this graph?
Select all that apply.



- [x] $y + 1 = \frac{2}{3}(x + 6)$
- [ ] $y - 5 = \frac{2}{3}x + 3$
- [ ] $y - 1 = \frac{3}{2}(x + 3)$
- [ ] $y = \frac{3}{2}x - 3$
- [x] $y - 5 = \frac{2}{3}(x - 3)$

$y + 1 = \frac{2}{3}x + 6$

QUESTION 15

Which equation in point-slope form shows a line that passes through $(-3, 1)$ with a slope of 2?

$y - 1 = 2(x + 3)$ ✓

$y - 1 = 2(x - 3)$

$y - 1 = 2x + 3$

$y - 1 = 2x - 3$

QUESTION 16

QUESTION 16

What is the equation in point-slope form of a line with a slope of

$\frac{1}{2}$

that passes through the point

$(-4, -6)$

?

Select your answers from the drop-down menus.

$y + 6$ ✓

$=$

$\frac{1}{2}(x + 4)$ ✓

QUESTION 17

Write an equation in point-slope form for the line that has a slope of

5

and passes through the point

$(2, 9)$

.

Enter your answers in the spaces provided.

$y -$

9 ✓

$=$

5 ✓

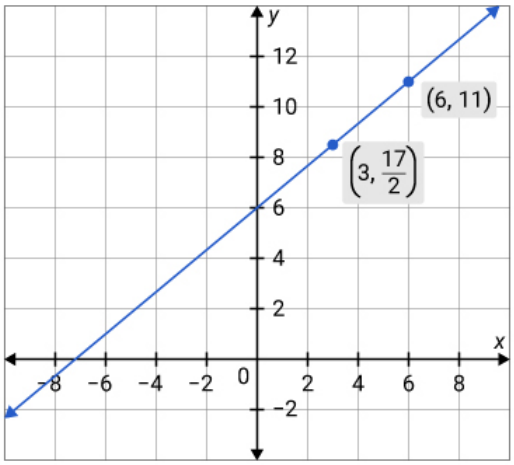
$(x-$

2 ✓

$)$

QUESTION 18

Write the equation in slope-intercept form of the line shown on this graph that passes through the points $\left(3, \frac{17}{2}\right)$ and $(6, 11)$.



Enter your answers in the spaces provided.

$y =$

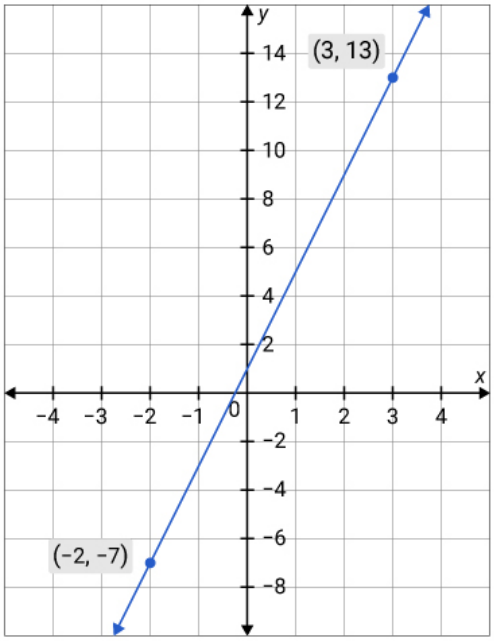
$\frac{5}{6}$ ✓

$x+$

6 ✓

QUESTION 19

The line on this graph passes through points
$(-2,-7)$
and
$(3,13)$
. Write an equation for the line in slope-intercept form.
Enter your answers in the spaces provided.



$y =$

4

$x +$

1

QUESTION 20

Determine the equation in slope-intercept form for the line that passes through the points
$(-5,-2)$
and
$(-1,-1)$
.

Select the correct answer from the drop-down menu.
The equation for the line is
$y =$

$\frac{1}{4}x - \frac{3}{4}$.

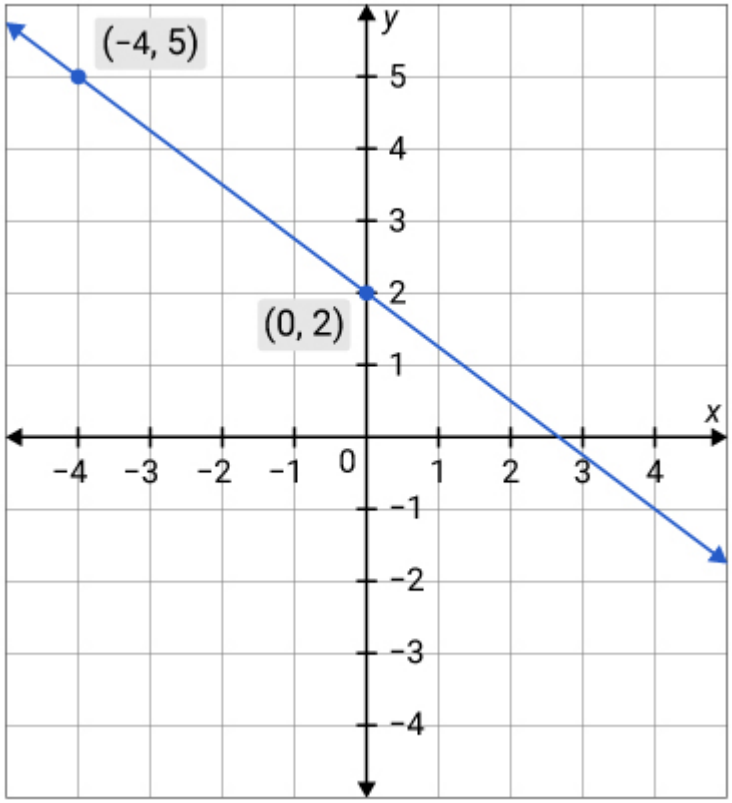
QUESTION 21

What is the equation of the line that passes through the points
$(-4, 2)$
and
$(7, -8)$
, in slope-intercept form?

- $y = \frac{10}{11}x - \frac{18}{11}$
- $y = -\frac{6}{11}x - \frac{2}{11}$
- $y = -\frac{6}{11}x + \frac{2}{11}$
- $y = -\frac{10}{11}x - \frac{18}{11}$ ✓

QUESTION 22

Which equation in slope-intercept form represents the line shown on the graph passing through the points $(-4,5)$ and $(0,2)$?



Select the correct answer from the drop-down menu.

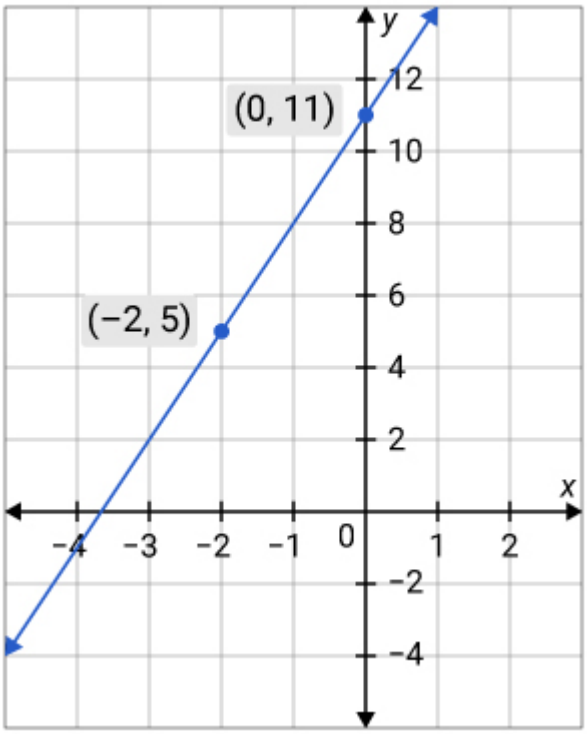
The equation that represents the line shown on the graph is $y =$

$-\frac{3}{4}x + 2$.

QUESTION 23

The line on the graph passes through points $(-2,5)$ and $(0,11)$.

What is the equation for this line in slope-intercept form?



- [x] $y = 3x + 11$

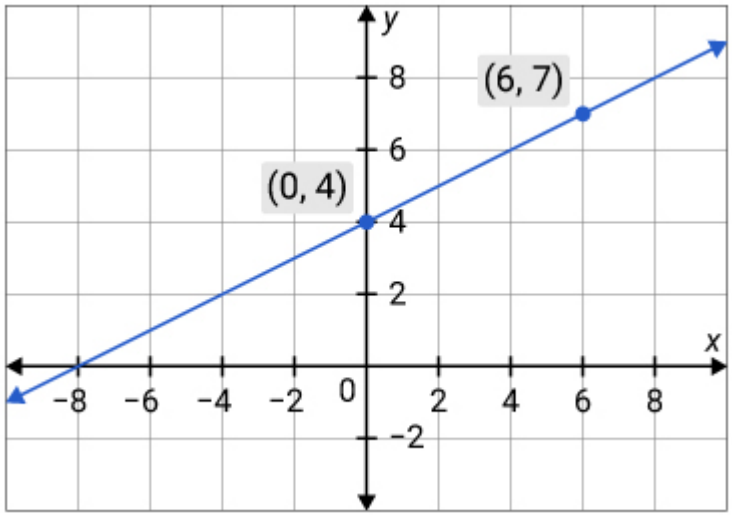
- [ ] $y = \frac{1}{3}x + 5$

- [ ] $y = -\frac{1}{3}x + 5$

- [ ] $y = -3x + 11$

QUESTION 24

What is the equation in slope-intercept form of the line shown on this graph?



- $y = 3x + 4$
- $y = 2x + 7$
- $y = \frac{1}{2}x + 4$ ✓
- $y = 6x + 7$

QUESTION 25

Determine the equation in slope-intercept form for the line that passes through the points $(0, 12)$ and $(5, 10)$

.

Drag and drop your answers to correctly complete the linear equation in slope-intercept form.

$y =$

$-\frac{2}{5}$ ✓

$x +$

12 ✓

$-\frac{5}{2}$ $\frac{2}{5}$ 10 5 $\frac{5}{12}$

QUESTION 26

What is the slope of the line that passes through points

$(2, -2)$

and

$(9, -5)$

?

Select the correct answer from the drop-down menu.

The slope of the line is $-\frac{3}{7}$ ✓ .

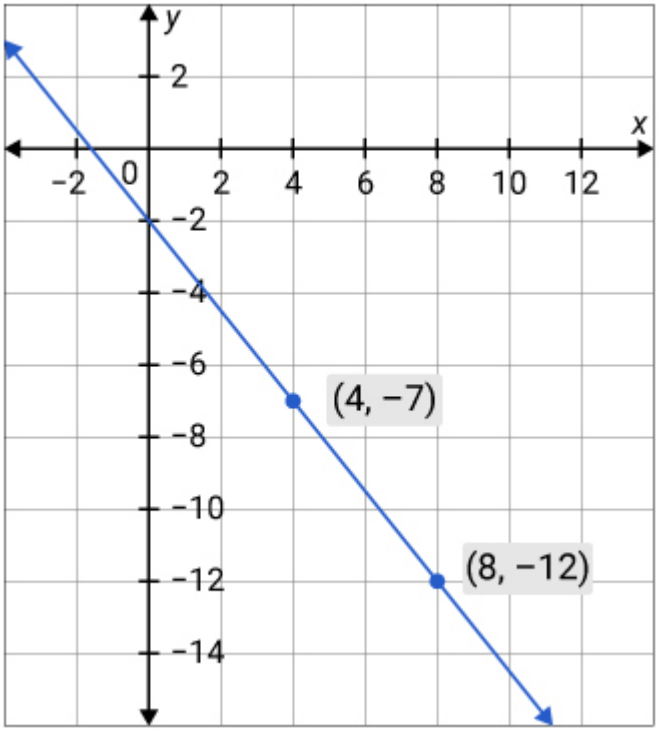
QUESTION 27

What is the slope of the line shown on the graph passing through points $(4, -7)$ and $(8, -12)$?

Enter your answer in the space provided.

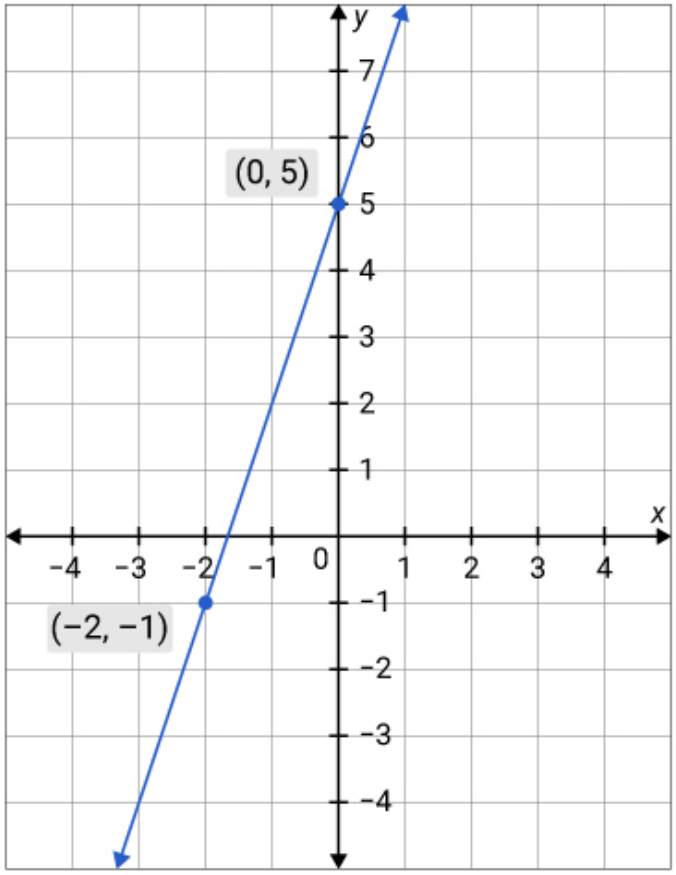
The slope of this line is

$-\frac{5}{4}$ ✓.



QUESTION 28

What is the slope of the line shown on the graph?



- [x] 3
- [ ] 2
- [ ] $\frac{1}{3}$
- [ ] -2

QUESTION 29

Determine the slope of the line represented by this equation.

$6x + y = 1$

Drag and drop your answer to correctly complete the sentence.

The slope of this line is -6 ✓.

6 | 1 | $\frac{1}{6}$

QUESTION 30

Determine the slope of a line with points

$(1, 4)$

and

$(-2, 10)$

.

Enter your answer in the space provided.

$m =$

-2 ✓