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QUESTION 1

Write

$$\frac{5}{2}x = 2y - \frac{5}{4}$$

in standard form. Identify

A

,

B

, and

C

.

Enter your answers in the spaces provided. (Use lower case letters only)

The standard form of the equation is $10x - 8y = -5$, with

$A =$

10 ,

$B =$

-8 , and

$C =$

-5 .

QUESTION 4

Write

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$3y = 2x + 5$

in standard form. Identify

A

,

B

, and

C

.

Enter your answers in the spaces provided. (Use lower case letters only)

The equation in standard form is $2x - 3y = -5$ with

$A =$

2 ,

$B =$

-3 , and

$C =$

-5 .

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QUESTION 6

Which linear equation is written in standard form?

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

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- [x] $4x + 5y = -9$
- [ ] $2y = 4x + 1$

QUESTION 7

Fatima has a bag with 492 grams of dried figs. She eats 16.4 grams each day. This can be represented by the equation

$y = 492 - 16.4x$

. Determine the x- and y-intercepts. How long will the bag of dried figs last Fatima?

Enter your answer in the spaces provided.

The x-intercept is 30 .

The y-intercept is 492 .

The bag of dried figs will last

30 days.

QUESTION 9

A museum has record-breaking sales of AED 252 from tickets in 1 hour. A child's ticket costs AED 7 and an adult's ticket costs AED 12. This can be represented by the equation

$7x + 12y = 252$

. Interpret the x-intercept and the y-intercept of this equation.

Drag and drop your answers to correctly complete the sentences.

If no adult tickets were sold during that hour, then [36] child tickets were sold.

If no child tickets were sold during that hour, then [21] adult tickets were sold.

If 12 child tickets were sold during that hour, then [14] adult tickets were sold.

7 24 12

QUESTION 11

What is the x-intercept and y-intercept of this linear equation?

$4x - 9y = 72$

Drag and drop your answers to correctly complete the sentences.

The x-intercept is [18].

The y-intercept is [-8].

8 -18 4 -9

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QUESTION 13

Determine the x-intercept and y-intercept of this linear equation.

$5x + 15y = -60$

Enter your answers in the spaces provided.

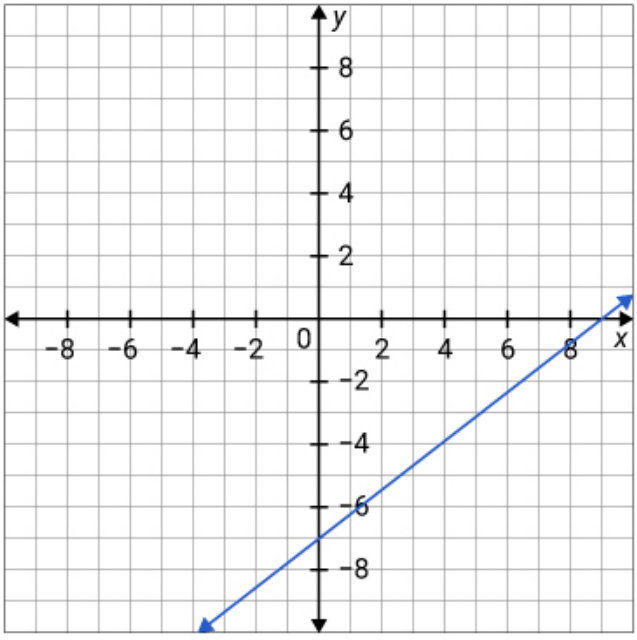
The x-intercept is -12 ✓.

The y-intercept is -4 ✓.

QUESTION 15

Write the equation in standard form for this graph of a linear equation.

Enter your answers in the spaces provided.



7 ✓

$x -$

9 ✓

$y = 63$

QUESTION 17

Khaled is driving to Dubai. He is 520 kilometers away and his average driving speed is 100

kilometers per hour. Khaled wants to know how long it will take him to drive to Dubai. This can be represented by the equation

$y = 520 - 100x$

. Determine the

x

-intercept and

y

-intercept. How many hours will it take to drive to Dubai?

- The x -intercept is 520 and the y -intercept is 5.2. The drive will take 5.2 hours.
- The x -intercept is 520 and the y -intercept is 110. The drive will take 110 hours.
- ✓ The x -intercept is 5.2 and the y -intercept is 520. The drive will take 5.2 hours.
- The x -intercept is 100 and the y -intercept is 520. The drive will take 100 hours.

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QUESTION 19

Determine the x-intercept and the y-intercept of the linear equation.

$3x - 10y = 12$

- The x-intercept is 4 and the y-intercept is $-\frac{6}{5}$. ✓
- The x-intercept is -4 and the y-intercept is $\frac{6}{5}$

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5

.

The x-intercept is $-\frac{6}{5}$ and the y-intercept is 4.

The x-intercept is $\frac{6}{5}$ and the y-intercept is -4.

QUESTION 21

Jasmin is baking pita bread. She wants to know how many batches she can bake. Jasmin has 2635 grams of flour and each batch requires 310 grams of flour. This can be represented by the equation

$y = 2635 - 310x$

. Determine the

x

-intercept and

y

-intercept. How many batches of pita bread can Jasmin make?

Select the correct answer from the drop-down menus.

The

x

-intercept is 8.5 and the

y

-intercept is 2635. Jasmin can make 8.5 batches of pita bread.

QUESTION 23

Jamila bought a candle. She wants to know how long it will last. The candle is 30 centimeters tall and burns at a rate of 2.5 centimeters an hour. This can be represented by the equation

$y = 30 - 2.5x$

.

Determine the

x

-intercept and

y

-intercept. How many hours will the candle last?

Enter your answers in the spaces provided.

The

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x

-intercept is 12 ✓.

The

y

-intercept is 30 ✓.

The candle will last 12 ✓ hours.

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QUESTION 25

Determine the

x

-intercept and

y

-intercept for the linear equation.

$9x - 5y = 15$

Select the correct answer from the drop-down menus.

The

x

-intercept is $\frac{5}{3}$ ✓.

The

y

-intercept is -3 ✓.

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QUESTION 27

Determine the x-intercept and the y-intercept of the linear equation.

$3x + 7y = 42$

Select the correct answer from the drop-down menus.

The x-intercept is 14 ✓ .

The y-intercept is 6 ✓ .

QUESTION 29

Determine the x-intercept and y-intercept of the linear equation.

$4x + 7y = -14$

Drag and drop the answers to correctly complete the sentence.

The

x

-intercept is $-\frac{7}{2}$ ✓ and the

y

-intercept is -2 ✓.

4 2 -4 $\frac{7}{2}$ -7 7

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QUESTION 31

Determine the

x

-intercept and the

y

-intercept of the following linear equation.

$2x + 9y = -36$

The

x

-intercept is

-18

and the

y

-intercept is ✓

-4

.

The x-intercept is -4 and the y-intercept is -18.

The x-intercept is 18 and the y-intercept is 4.

The x-intercept is 4 and the y-intercept is

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18

.

QUESTION 33

Determine the

x

-intercept and the

y

-intercept of

$5x - 4y = -40$

.

Enter your answers in the spaces provided.

The

x

-intercept is -8 and the

y

-intercept is 10.

QUESTION 35

Which graph shows this linear equation?

$2x - 4y = -1$

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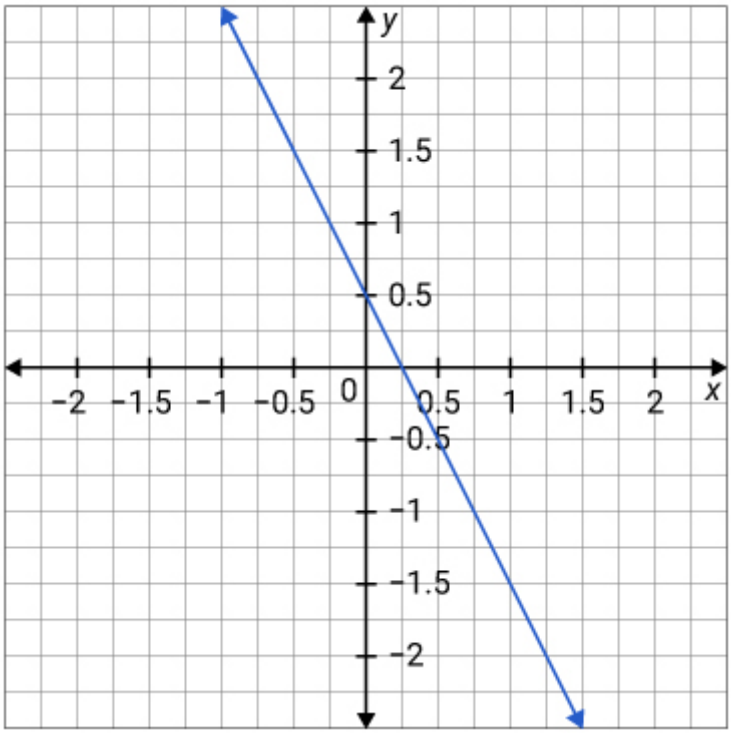

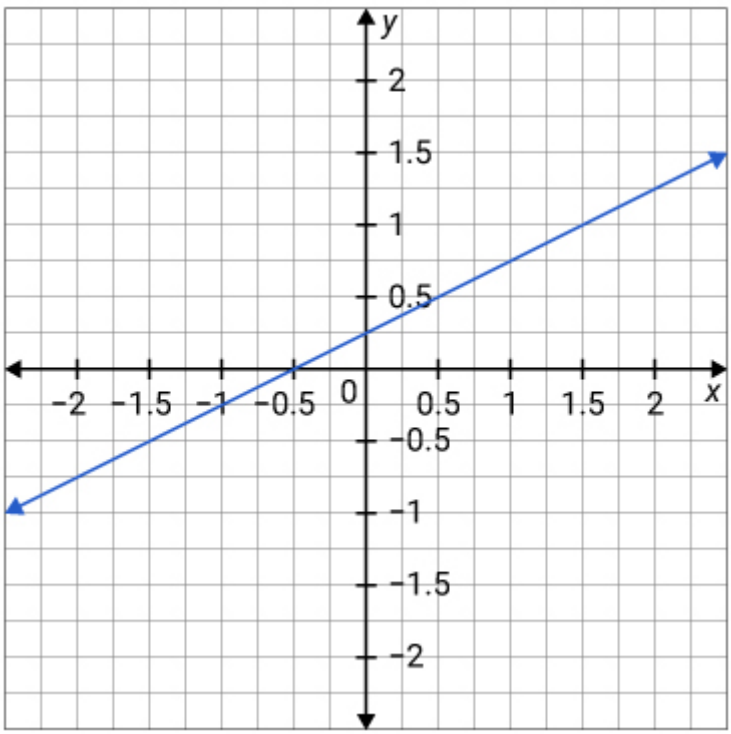

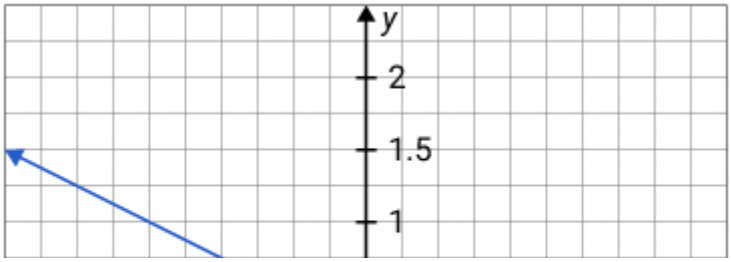

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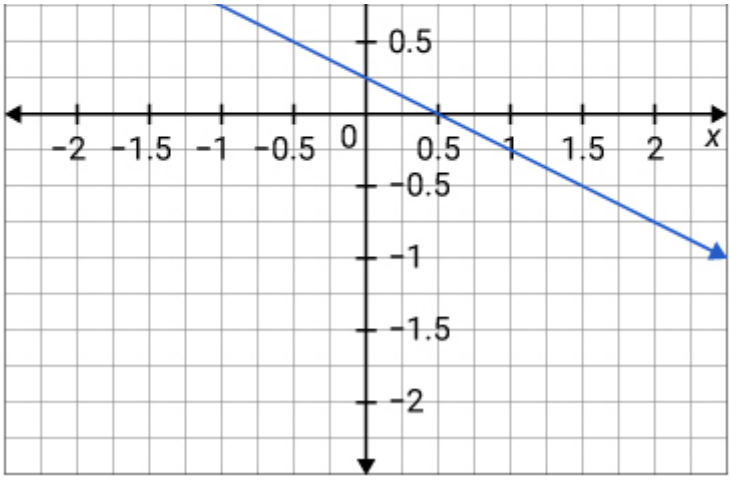

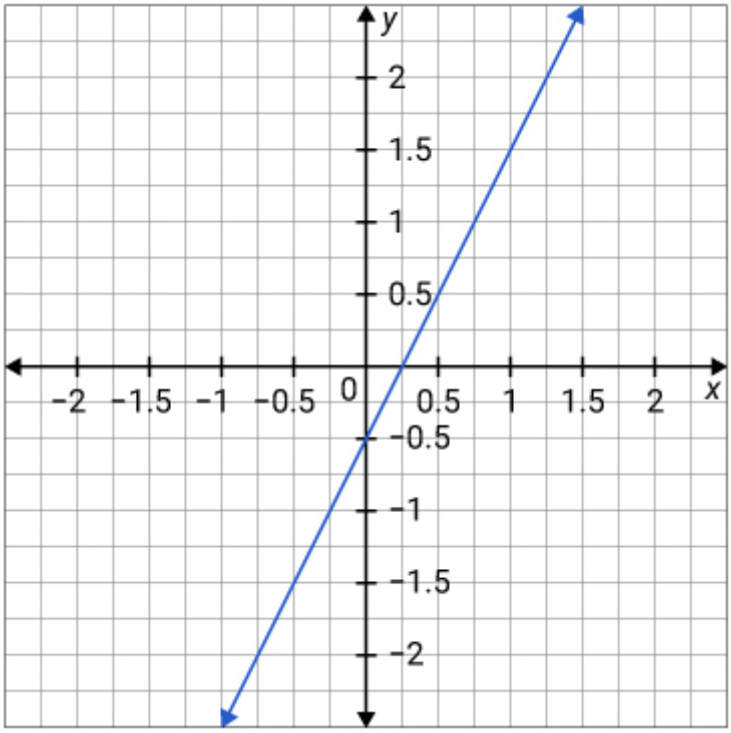

QUESTION 37

Identify
A
,
B
, and

C

in the linear equation.

$7x - 2y = -28$

Select the correct answer from the drop-down menus.

In the linear equation,

$A =$

7 ✓ ,

$B =$

−2 ✓ , and

$C =$

−28 ✓ .

QUESTION 39

Identify

A

,

B

, and

C

in the linear equation.

$4x + 3y = -20$

Drag and drop the correct answer to the appropriate box.

$A =$

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4

$B =$

3

$C =$

-20

20 -4 -3

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QUESTION 40

For the linear equation

$7x + 2y = -4$

, what is

$A, B,$ and C

?

Enter your answers in the spaces provided.

$A =$

7

$B =$

2

$C =$

-4

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QUESTION 42

Write this linear equation in standard form.

$5 - 8y = 3x$

Identify

A, B, and C

.

$A =$

3 ✓

$B =$

8 ✓

$C =$

5 ✓

-3 -8 -5

QUESTION 44

Which linear equation when written in standard form has the values

$A = 1$, $B = -2$, and $C = 2$

?

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- $2 - 2y = x$
- $2y + 2 = x$ ✓
- $2 + x = 2y$
- $x + 2 = -2y$

QUESTION 46

Use the standard form of this linear equation to identify A, B, and C

.

$$-\frac{2}{3} + \frac{3}{4}y = \frac{5}{2}x$$

Enter your answers in the spaces provided.

$A =$

30 ✓

$B =$

-9 ✓

$C =$

-8 ✓

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QUESTION 48

Identify
A
,
B
, and
C
in the linear equation
$8x - 6y = 15$
.
Enter your answers in the spaces provided.
$A =$
8 ✓
$B =$
-6 ✓
$C =$
15 ✓

QUESTION 50

Write
$$\frac{3}{10}y - 6 = -\frac{2}{5}x$$
in standard form. Identify

A

,

B

, and

C

.

Select the correct answer from the drop-down menus.

The standard form is $4x + 3y = 60$ with

$A =$

4 ,

$B =$

3 , and

$C =$

60 .

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QUESTION 52

Write

$\frac{2}{3}y = 3x - 1$

in standard form. Identify

A

,

B

, and

C

.

Drag and drop the answers to correctly complete the sentence.

Standard form is $9x - 2y = 3$ with

$A =$

9 ,

$B =$

-2 , and

$C =$

3 .

$9x - 2y = -3$ $9x + 2y = 3$ $\frac{2}{3}$ 2 -9

QUESTION 54

Write the equation

$-4y = 2x + 7$

in standard form. Identify

A

,

B

, and

C

.

Drag and drop the answers to correctly complete the sentence.

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The standard form is $2x + 4y = -7$ with

$A =$ 2 ,

$B =$ 4 , and

$C =$ -7 .

$-2x - 4y = 7$ -2 $2x + 4y = 7$ 7 -4

QUESTION 56

Write this equation in standard form.

$$2 - \frac{3}{5}x = \frac{7}{10}y$$

Use the standard form to identify

A, B, and C

.

- [ ] $C = 2$
- [ ] $B = -7$
- [ ] $C = 20$

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- [x] $C = 20$ ✓
- [ ] $B = 70$
- [ ] $A = 5$
- [ ] $C = -20$
- [x] $A = 6$ ✓
- [x] $B = 7$ ✓

QUESTION 58

Write $-5x = -3y + 30$ in standard form. Identify A, B, and C.

Select the correct answer from the drop-down menus.

Standard form of the equation is $5x - 3y = -30$ with

$A =$

5 ,

$B =$

-3 , and

$C =$

-30 .

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