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QUESTION 1

Hamdan wants to buy a new gaming console, he has AED 250, and he decides to save AED 75 each month. Write an equation in slope-intercept form of the total amount, y, Hamdan will have after x months.

- $y = 75x - 250$
- $y = 250x + 75$
- $y = 75x + 250$ ✓
- $y = 250x - 75$

QUESTION 2

An airplane takes off at an elevation of 100 m. It rises 650 meters per minute for the first 10 minutes of the flight. Complete the model below to show the height in meters, y, of the plane x minutes after takeoff for the first 10 minutes.

Select your answers from the drop-down menus.

$y =$ 650 ✓ $x +$ 100 ✓

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QUESTION 4

Drag and drop your answers into the blanks.

Rewrite each of the equations below using slope-intercept form.

Standard Form	Slope-Intercept Form	
$6x + y = 21$	$y = -6x + 21$ ✓	
$3x + y = -9$	$y = -3x - 9$ ✓	

$y = 2x + 3$ $y = 2x + 7$ $y = 3x - 9$

QUESTION 6

Drag and drop your answer into the blank.

Rewrite the given equation in slope-intercept form.

Given Equation	Slope-Intercept Form	
$y - 3x = 9$	$y = 3x + 9$ ✓	

$y = -1.5x - 4.5$ $y = 3x - 9$ $y = 9x + 3$

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QUESTION 8

Select your answers from the drop-down menus.

Complete the equation below to show the equation

$-8x + y = -15$

in slope-intercept form.

$y =$ 8 ✓ x −15 ✓

QUESTION 10

Select your answers from the drop-down menus.

Complete the equation below to show the equation

$6x + y = 11$

in slope-intercept form.

$y =$ −6 ✓ $x +$ 11 ✓

QUESTION 12

Select your answer from the drop-down menu.

Write the equation $y + 5x = 8$ in slope-intercept form.

The equation in slope-intercept form is $y = -5x + 8$ ✓ .

QUESTION 14

Which of the following linear equations are expressed in slope-intercept form? Select all that apply.

- [ ] $-4x + y = 9$
- [x] $y = -0.4x + 2.2$ ✓
- [ ] $3x + 4y = 5$
- [ ] $2y = 5x - 16$
- [x] $y = 18x + 15$ ✓
- [ ] $3x = 7 + y$

QUESTION 15

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An electronic technician charges AED 25 for a consultation plus AED 7 per hour. Write an equation in slope-intercept form of the total amount y the technician gets after working x hours.

- ◉ $y = 7x + 25$ ✓
- ○ $y = 7x - 25$
- ○ $y = 25x - 7$
- ○ $y = 25x + 7$

QUESTION 19

Huda is buying an apartment. In the beginning, she paid AED 25,000 as a down payment. She pays a monthly installment of AED 4,500. Write an equation in slope-intercept form of the total amount y Huda pays after x months.

- ○ $y = 4,500x - 25,000$
- ○ $y = 25,000x + 4,500$
- ○ $y = 25,000x - 4,500$

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$y = 4,500\,x + 25,000$ ✓

QUESTION 20

Write the linear equation in slope-intercept form for the given slope and *y*-intercept.

- *y*-intercept: 21
- slope: 24

Enter your answers in the spaces provided.

$y =$ 24 ✓ $x +$ 21 ✓

QUESTION 21

Latifa opens a savings account with AED 450. Each month, she deposits AED 125 into her account and does not withdraw any money from it. Write an equation in slope-intercept form of the total amount *y* in Latifa's account after *x* months.

- ◉ $y = 125\,x + 450$ ✓
- ○ $y = 125\,x - 450$
- ○ $y = 450\,x - 125$
- ○ $y = 450\,x + 125$

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QUESTION 22

What is the linear equation for a line with a slope of
0
and a *y*-intercept of
8
?

- $y = x + 8$
- $y = 8x + 8$
- $y = 8$ ✓
- $y = 8x$

QUESTION 23

Enter your answers into the blanks.

Write an equation in slope-intercept form for the line with a slope of

$\frac{2}{3}$

and y-intercept of -1.

The equation is

$y =$

$\frac{2}{3}x - 1$ ✓

.

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QUESTION 24

What is the linear equation for a line with a slope of

-6

and a y-intercept of

$\frac{1}{5}$

?

- ○ $y = \frac{1}{5}x - 6$
- ◉ $y = -6x + \frac{1}{5}$ ✓
- ○ $y = -\frac{1}{6}x + 5$
- ○ $y = 5x - \frac{1}{}$

$y = 5x$

$\frac{}{6}$

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