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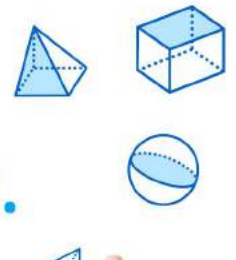

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Standard Form To Slope Intercept Form Worksheets

For the questions from 1-3, fill in the boxes to convert them into the slope-intercept form.

1) $4x + y = 12 \Rightarrow y =$ ☐

2) $2x - 3y = -1 \Rightarrow -3y =$ ☐ $- 1 \Rightarrow y =$ ☐

3) $\frac{4}{5}x + \frac{1}{3}y = 6 \Rightarrow \frac{1}{3}y =$ ☐ $\Rightarrow y =$ ☐

The following equations of lines from 4-9 are in standard from. Convert each of them into the slope-intercept form.

4) $-6x + 3y = -8$

5) $4x - y = 14$

6) $\frac{7}{3}x + \frac{3}{4}y = -8$

7) $-10x + 2y = -4$

8) $-x + \frac{1}{4}y = -\frac{4}{7}$

9) $-12x + 4y = -16$

10) Mia has some photos in her photo album and she starts adding a constant number of photos every week. The relation between the number of photos (y) and the number of weeks (x) is given by the linear equation $-10x + y = 20$. Convert this equation into the slope-intercept form to find

i) the initial number of photos in the album.
ii) the number of photos being added per week.

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Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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ANSWERS

1)	$4x + y = 12 \Rightarrow y = \boxed{-4x + 12}$
2)	$2x - 3y = -1 \Rightarrow -3y = \square - 1 \Rightarrow y = \boxed{\frac{2}{3}x + \frac{1}{3}}$
3)	$\frac{4}{5}x + \frac{1}{3}y = 6 \Rightarrow \frac{1}{3}y = \boxed{-\frac{4}{5}x + 6} \Rightarrow y = \boxed{-\frac{12}{5}x + 18}$
4)	$y = 2x - \frac{8}{3}$
5)	$y = 4x - 14$
6)	$y = -\frac{28}{9}x - \frac{32}{3}$
7)	$y = 5x - 2$
8)	$y = 4x - \frac{16}{7}$
9)	$y = 3x - 4$
10)	$y = 10x + 20$ i) 20 ii) 10

FUN FACT

1. Two lines are said to be parallel if their slopes are equal.
2. Two lines are said to be perpendicular if the product of their slopes is -1.
3. To find the slope of a line given its equation in terms of x and y, solve it for y to get it to the form y = mx + b. Then m is the slope of the equation.