

Slope-Intercept \rightarrow Standard Form

Standard Form: $Ax + By = C$

"A" must be an integer, not a fraction!

Slope-Intercept Form: $y = mx + b$

Write the following equations in Standard Form.

Ex 1: $y = \cancel{2}x - 1$
 $-2x \quad \cancel{-x}$
 $\boxed{-2x + y = -1}$

Ex 2: $3x + 1 = y$
 $y = \cancel{3}x + 1$
 $-3x \quad \cancel{-x}$
 $\boxed{-3x + y = 1}$

Ex 3: $y = \frac{1}{3}x - 5$
 $-\frac{1}{3}x \quad \cancel{\frac{1}{3}x}$

$\frac{3}{1} \cdot \left[\frac{1}{3}x + y = -5 \right]$
 $\boxed{-1x + 3y = -15}$

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

$$3y = \cancel{-\frac{3}{2}x} + 5$$
$$\begin{array}{r} +\frac{3}{2}x \\ \hline \end{array}$$

$$2 \cdot \left[\frac{3}{2}x + 3y = 5 \right]$$

$$\boxed{3x + 6y = 10}$$