

General Form of an Equation

March 5

$$0 = Ax + By + C \quad \boxed{Ax + By + C = 0}$$

Where A is a whole number. (positive, not a fraction)
B and C are integers. (not fractions)
A and B cannot equal zero.

Write each equation in general form:

ex) $y = 3x - 5$
 $0 = 3x - y - 5$

ex) $y = -\frac{2}{3}x + 4$
 $(-1) 0 = -\frac{2(-1)}{3}x - y + 4(-1)$
 $(3) 0 = \frac{2(3)}{3}x + y - 4(3)$
 $0 = 2x + 3y - 12$

ex) $y = -\frac{1}{6}x - \frac{2}{3}$
 $\frac{1}{6}x + y + \frac{2}{3} = 0$
 $x + 6y + 4 = 0$

ex) $y + 1 = \frac{5}{2}x + 4$
 $x = \frac{5}{2}x - y + 4$
 $(2) 0 = \frac{5(2)}{2}x - y + 3(2)$
 $0 = 5x - 2y + 6$

Purple WS