

Example 3: Rewrite each equation in standard form

a) $y = \frac{1}{4}x - 2$

$-x + 4y = -8$

1) Turn into slope-int
 $y = mx + b$

2) Move x and y to same side

3) Multiply everything by denom

b) $y - 2 = -\frac{1}{3}(x + 6)$

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

$y = -\frac{1}{3}x + 0$

$+\frac{1}{3}x \quad +\frac{1}{3}x$

3) $\left(\frac{1}{3}x + y = 0 \right)$
 $1x + 3y = 0$

$AX + BY = C$
~~A, B, C~~ NOT fractions

Summary: