Example 3: Rewrite each equation in standard form: $Ax+By=C$

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

$-1x+4y=-8$

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

2) Move x and y to same side

3) Multiply everything by denom

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

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

$+2 \quad +2$

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

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

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

$1x+3y=0$

* A, B, C not fractions

Summary: