1

Find the y-intercept and
the slope for each of the following.

You have
5 minutes.

a) $5y - 10 = 15x - 30$

b) $4(x+3) + 2y = 11$

c) $2(y-7) + 2 = 3(x-4) + y$

2

y-int.: -4

slope: 3

a) $5y - 10 = 15x - 30$

$5y = 15x - 30 + 10$

$5y = 15x - 20$

$\frac{5y}{5} = \frac{15x}{5} - \frac{20}{5}$

$y = 3x - 4$

3

y-int.: -1/2

slope: -2

b) $4(x+3)+2y=11$

$4x+12+2y=11$

$2y=11-4x-12$

$y=mx+b$

$2y=-4x-1$

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

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

4

y-int.: 0

slope: 3

c) $2(y-7)+2=3(x-4)+y$

$2y-14+2=3x-12+y$

$2y-y=3x-12+14-2$

$y=3x+0$

$y=3x$

$X=5$