

Warm-Up: 4/19/18

① $6x - 2y = 18$

$y = x + 1$

$y = 5 + 1$

$y = 6$

(5, 6)

$6x - 2(x + 1) = 18$

$6x - 2x - 2 = 18$

$4x - 2 = 18$

$+2 \quad +2$

$\frac{4x}{4} = \frac{20}{4}$

$x = 5$

② My neighbor has both hens and roosters. He has a total of 31 chickens. The number of hens is ten more than twice the number of roosters. How many hens does he have?
h = hens r = roosters

$h + r = 31$ ←

$2r + 10 = h$

$h + 7 = 31$
 $-7 \quad -7$

$2r + 10 + r = 31$

$3r + 10 = 31$
 $-10 \quad -10$

$3r = 21$

$r = 7$

24 hens →

$h = 24$

47