MAT 011, Quiz #2, Fall 2015 Name KEY

1. The sum of three consecutive integers are 198. What are the integers?

x
$x+1$
$x+2$

$x + x+1 + x+2 = 198$

$3x+3 = 198$

$-3 \quad -3$

$\frac{3x}{3} = \frac{195}{3} \Rightarrow x = 65$

the 3 #'s are 65, 66, 67

2. Solve $x + 2y = 6$ for y.

$x + 2y = 6$

$-x \quad -x$

$\frac{2y}{2} = \frac{6-x}{2}$ → $y = \frac{6-x}{2}$ or $3 - \frac{1}{2}x$

3. Find last year's salary if, after a 6% pay raise, you current salary is $33,390.

$x + .06x = 33,390$

$\frac{1.06x}{1.06} = \frac{33,390}{1.06}$

$x = \$31,500$ is last year's salary