

## Math 70 Quiz #5

1. (a) Using distribution:  $-4(-2t + 1) = \boxed{8t - 4}$

(b) Using distribution and then combining like terms:

$$2(x^2 + 5x) - \frac{3}{4}(12x - 8) = 2x^2 + 10x - 9x + 6 = \boxed{2x^2 + x + 6}$$

2.  $3\left(\frac{1}{2}\right)^2 - 1 = \frac{3}{4} - 1 = \frac{3}{4} - \frac{4}{4} = \boxed{-\frac{1}{4}}$

3.  $7(-2) - (-2)^2 + 5 = -14 - 4 + 5 = \boxed{-13}$

4. Area =  $\frac{1}{2}(12)(10) = 60$  square feet

Cost =  $2.75(60) = 165$

$\boxed{\text{The cost is \$165.}}$