

# Math 085 - Quiz 6

February 27, 2013

Name key

Score \_\_\_\_\_

Show all your work to receive full credit. Supply explanations when necessary.  
NO CALCULATORS ARE ALLOWED ON THIS QUIZ!

1. (2 points) Solve each equation.

(a)  $4x - 8 = 12$

$$\begin{array}{r} +8 \quad +8 \\ \hline \end{array}$$

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

$$\boxed{x = 5}$$

(b)  $-6y + 4 = 28$

$$\begin{array}{r} -4 \quad -4 \\ \hline \end{array}$$

$$\frac{-6y}{-6} = \frac{24}{-6}$$

$$\boxed{y = -4}$$

2. (1 point) List the terms:  $4x^2 - 4xy + 7x - y^2$

$$4x^2, -4xy, 7x, -y^2$$

3. (1 point) Use the distributive property to remove the parentheses. Then simplify by combining like terms.

$$6x + 3(x + 2y) + y$$

$$6x + 3x + 6y + y$$

$$\boxed{9x + 7y}$$

4. (1 point) Solve:  $2^3 - (-2) = 3x + 2x$

$$8 + 2 = 5x$$

$$\frac{10}{5} = \frac{5x}{5}$$

$$2 = x$$

$$\boxed{x = 2}$$