Chapter 3 Review

- 1. Write an equation or inequality and solve:
 - a) The product of 4 and m increased by 4 is greater than 44.
 - b) 6 times a number less than 8 is 72.
- 2. Multiply (y-6)(y+3)
- 3. Graph 2<x≤6
- 4. a) Add $3x^2 + 9x 5$ and $7x^2 12x 6$
 - b) Subtract the terms from part a.
- 5. Simplify $3a^5(6a^4 2a^3b)$
- 6. Find the quotient of $(8m^4 + 12m^3 + 2m)$ and 2m
- 7. Solve 7x 8 = 10 + 4x

8. Solve ax + n = m for x

9.Solve the following systems of equations:

$$5x - 2y = 10$$
$$2x + y = 31$$

10.Write a system of equations and solve by elimination or substitution. Remember to use let statements.

Twice one integer plus 3 times a second integer equals 9. Five times the first integer plus 4 times the second integer equals 5. What are the numbers?

11. Solve for x:
$$\frac{4x+5}{6} \frac{7}{2}$$

12. Solve for x:
$$\frac{2x-3}{4} = \frac{x-2}{3}$$