

Name: _____
Date: _____
Class: _____

Algebra
Unit 8
HW 8-2

1) Solve: $x^2 - 2x = 3$

2) Solve: $3x^2 + 48 = 30x$

3) Solve: $(x - 3)(x + 1) + (x - 3)(2x - 7) = 0$

4) Solve: $30x^2 - 80x = 0$

5) Solve: $x^2 + 5x - 12 = 8x - 2$

6) Solve: $6x^2 - 3x - 28 = 14 + 6x$

7) If a rectangle has an area of 416, a length represented by $x + 7$, and a width represented by $3x - 1$, determine what its perimeter would be.

8) If a triangle has an area represented by $x^2 - 12x + 32$, determine a value of x that would make the area equal to 12. What would the base and height be?