Name: _____ Algebra
Date: _____ Unit 9
Class: _____ HW 9-4

1) Solve: $x^2 - 7 = 42$

2) Solve: $2x^2 - 92 = 104 + x^2$

3) Solve: $2x^3 + 12 = 140$

4) Solve: $142 - 2x^3 = 485 - 3x^3$

5: Solve (answers in simplest radical form): $2x^2 + 25 = 75 + x^2$

6) If a rectangle's length is $8 + 3\sqrt{2}$ and its width is $6 - 2\sqrt{8}$ what would its area and perimeter be in simplest radical form?

7) If a triangle has a base that is $6 + 4\sqrt{3}$ and a height that is $2 + 3\sqrt{6}$, what would it's area be in simplest radical form?

8) Simplify: $\sqrt{588x^5y^2}$