Algebra 2 Chapter 6 In-Class Practice Test

Name			

Factor the problems below.

$$2. 5n^2 - 22n + 8$$

Solve for the variable using your skills of factoring.

$$3. x^2 + 8x = 20$$

_____ 4.
$$6x^2 + 13x - 5 = 0$$
 (Busting B will be needed)

Solve for the variable using your knowledge of square roots. Round your answers to the nearest tenth.

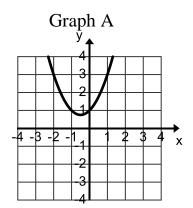
$$5. 10n^2 - 1000 = 0$$

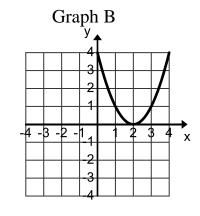
$$6. \quad 2(n-1)^2 - 32 = 0$$

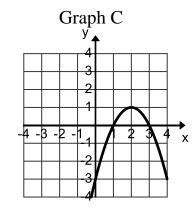
$$3(b-4)^2 - 24 = 0$$

Match the graph with the correct discriminant value.

8. discriminant = 11
$$9$$
. discriminant = 0 10 . discriminant = -176







For 11-16, use these letters to tell how many times the parabola crosses the x-axis.

A = crosses x-axis at 2 points

$$B = crosses x-axis at 1 point$$

C = doesn't cross x-axis

_____ 11. discriminant = 5

 $\underline{}$ 14. discriminant = 0

16. discriminant
$$= 4$$

Use the quadratic equation to solve these equations. Round your answers to the nearest tenth.

Quadratic Formula is
$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

I gave you room to show your work.

_____ 17.
$$x^2 + 4x + 4 = 0$$

$$\underline{\hspace{1cm}} 18. \quad x^2 + 3x + 10 = 0$$

19.
$$-2x^2 + 3x + 9 = 0$$

$$20. \quad x^2 + x - 6 = 0$$