Section 9.6 Worksheet

Without looking at your notes, write down the quadratic formula below:

1.) _____

Write the equation in standard form. Identify the values of a, b, and c.

2.)
$$4x^2 = 12$$

3.)
$$-3x^2 - 8x = 2$$

$$b = \underline{\hspace{1cm}}$$

4.)
$$x^2 = 10x - 6$$

5.)
$$5x - 4 = 3x^2$$

$$b =$$

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Use the quadratic formula to solve the equation. Round the solutions to the nearest <u>tenth</u>, if necessary.

7.)
$$x^2 - 8x + 15 = 0$$

8.)
$$2x^2 + 3x - 2 = 0$$

a =

$$b =$$

9.)
$$14x + 3 = -9x^2$$

$$h =$$

10.)
$$4x^2 - 13x + 3 = 0$$

$$b = \underline{\hspace{1cm}}$$

REVIEW:

Evaluate the expression.

11.)
$$\pm \sqrt{400}$$

12.)
$$-\sqrt{81}$$

Solve the equation or write *no real solution*. Write the solutions as integers, if possible. Otherwise, write them as radical expressions.

13.)
$$x^2 + 4 = 16$$

14.)
$$2x^2 - 37 = 35$$