ALGEBRA II Chapter 4 section 8 Use the Quadratic Formula and the Discriminant pg. 292

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How do you use the quadratic formula and the discriminant?

VOCAB:

Quadratic formula:

Discriminant:

WARM - UP:

- 1. Write $15x^2 + 6x = 14x^2 12$ in standard form._____
- 2. Evaluate b^2 4ac when a = 3, b = -6, and c = 5_____
- 3. A student is solving an equation by completing the square. Write the step in the solution that appears just before $(x 3) = \pm 5$

NOTES:

Solve

$$x^2 - 5x = 7$$

$$16x^2 - 23x = 17x - 25$$

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\mathbf{x}^2	- (6x	+	10	=	0

Find the discriminant of the quadratic equation and give the number and type of solutions of the equation.

$$x^2 + 10x + 23 = 0$$

$$x^2 + 10x + 25 = 0$$

$$x^2 + 10x + 27 = 0$$

A basketball player passes the ball to a teammate. The ball leaves the player's hand 5 feet above the ground and has an initial vertical velocity of 55 feet per second. The teammate catches the ball when it returns to a height of 5 feet. How long is the ball in the air?

$$h = -16t^2 + v_0t + h_0$$

Let's see if you comprehended what we worked on in class...

Try for homework