5-6 The Quadratic Formula

WLesson Quiz

Find the zeros of each function by using the Quadratic Formula.

1.
$$f(x) = 3x^2 - 6x - 5$$

2.
$$g(x) = 2x^2 - 6x + 5$$

Find the type and number of solutions for each equation.

3.
$$x^2 - 14x + 50 = 0$$

4.
$$x^2 - 14x + 48 = 0$$

5. A pebble is tossed from the top of a cliff. The pebble's height in feet is given by $y(t) = -16t^2 + 6t + 200$, where t is the time in seconds. Its horizontal distance in feet from the base of the cliff is given by d(t) = 5t. How far will the pebble be from the base of the cliff when it hits the ground?

LESSON QUIZ TRANSPARENCY

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Find the zeros of each function by using the Quadratic Formula.

1.
$$f(x) = 3x^2 - 6x - 5$$
 1 $\pm \frac{2\sqrt{6}}{3}$

2.
$$g(x) = 2x^2 - 6x + 5$$
 $\frac{3}{2} \pm \frac{1}{2}i$

Find the type and number of solutions for each equation.

3.
$$x^2 - 14x + 50 = 0$$
 2 distinct nonreal complex

4.
$$x^2 - 14x + 48 = 0$$
 2 distinct real

5. A pebble is tossed from the top of a cliff. The pebble's height in feet is given by $y(t) = -16t^2 + 6t + 200$, where t is the time in seconds. Its horizontal distance in feet from the base of the cliff is given by d(t) = 5t. How far will the pebble be from the base of the cliff when it hits the ground? **about 19** ft