Name _____

Quadratic Discriminants - Greater/Lesser than Zero to Root Example

1 Which roots would be valid for a quadratic function with this discriminant?

$$\Delta = 0$$

A $x = 8.4$
$x = 7.5$

B $x = -1.5$

C $x = \dfrac{4.9 \pm i\sqrt{1.9}}{8.4}$

2 Which roots would be valid for a quadratic function with this discriminant?

$$\Delta > 0$$

A $x = -1.15$
$x = 1.15$

B $x = 2.4$

C $x = \dfrac{1.2 \pm i\sqrt{6.4}}{1.9}$

3 Which roots would be valid for a quadratic function with this discriminant?

$$\Delta < 0$$

A $x = 9.4$
$x = 5.1$

B $x = 8.3$
$x = 8.8$

C $x = \dfrac{-0 \pm i\sqrt{16}}{-2}$