

Alg 2 1.8 Homework

Question 1.

Solve the quadratic equation by taking square roots.

$$-x^2 + 15 = 0$$

5

$$x = \pm \boxed{} \sqrt{\boxed{}}$$

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Question 2.

Solve the quadratic equation by taking square roots. If necessary, rationalize the denominator and enter your answer in simplest form.

$$3(6 - 6x^2) = 6$$

$$x = \pm \boxed{}$$

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Question 3.

Determine whether the quadratic equation has real solutions or imaginary solutions by solving the equation.

$$\frac{1}{7}x^2 + 22 = 15$$

$x = \pm$

The solutions are .

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Question 4.

Determine whether the quadratic equation has real solutions or imaginary solutions by solving the equation.

Enter your answer in simplest form.

$$5(2x^2 - 3) = 4(x^2 - 10)$$

$x = \pm$

The solutions are (select)  **.**

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Question 5.

Drag and drop each number into the correct category to indicate whether it is real or imaginary.

i

$(3i)^2$

$\sqrt{-3}$

A square root of 3

$-\sqrt{10}$

$(-3)^2$

Real	Imaginary

