

MAC1105 COLL ALGEBRA ENHANCED 556794

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Day 7 Class Work

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Day 7 Classwork: Solving Quadratic Equations

Score

Solve each equation using the indicated method.

Solve by the square root property.

1.
$$x^{2} = -100$$

$$X = \pm \sqrt{-100}$$

$$X = \pm 10^{\circ}$$

Solve by completing the square.

2. $x^2 - x - 1 = 0$

$$x^{2}-x+(\frac{1}{2})^{2}=1+(\frac{1}{2})^{2}$$
 $(x-\frac{1}{2})^{2}=1+\frac{1}{4}=\frac{1}{4}$
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3.
$$2x^{2}-4x-3=0$$

$$x^{2}-2x-\frac{3}{2}=0$$

$$x^{2}-2x+(\frac{3}{2})^{2}=\frac{3}{2}+(-1)^{2}$$

$$(x-1)^{2}=\frac{5}{2}$$

$$x^{2}-1=\frac{5}{2}=\frac{1}{2}$$