

MasterMath

Solve Quadratic Equations by Using Square Roots and by Completing the Square

Name _____

Date _____

1. Solve these equations:

Equation	x =
$3x^2 - 3 = 0$	
$2x^2 - 42 = 8$	
$2x^2 + 13 = 11$	
$x^2 + 8 = 3$	
$5x^2 - 17 = -19$	
$9x^2 - 35 = 14$	
$25x^2 + 11 = 15$	
$6x^2 + 6 = 6$	
$2x^2 - 32 = 0$	
$4x^2 + 10 = 11$	

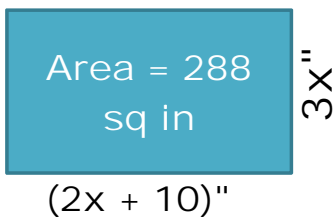
2. Solve these equations. Round your answer to the nearest hundredth.

Equation	x =
$(x - 7)^2 = 6$	
$\frac{1}{2}(x - 8)^2 = 3$	
$5(x - 2)^2 = 70$	
$3x^2 - 35 = 45 - 2x^2$	
$(4x^2 - 6)^2 = 81$	
$\frac{1}{3}(x - 6)^2 = 20$	
$42 = 3(x^2 + 5)$	

3. Solve these equations by completing the square. If necessary, round your answer to the nearest hundredth.

Equations	x =
$x^2 - 6x - 72 = 0$	
$x^2 + 11x = -5\frac{1}{4}$	
$x^2 - 8x + 1 = 0$	
$3x^2 - 18x - 20 = 0$	
$2x^2 - 8x - 14 = 0$	
$x^2 + 2x + .4 = .9x^2 + x$	
$x^2 + 12x + 10 = 0$	

4. Find the value of x. Round your answer to the nearest hundredth if necessary.



x =	
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