

Algebra 1 Honors Unit 1: Linear Equations and Functions Date: \_\_\_\_\_

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$(2x+3)^2 - (x-1)^2 = 10$   
 $(2x+3)(2x+3) - (x-1)(x-1) = 10$

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 $4x^2 + 12x + 9 - (x^2 - 2x + 1) = 10$   
 $4x^2 + 12x + 9 - x^2 + 2x - 1 = 10$   
 $3x^2 + 14x + 8 = 10$

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$3x^2 + 14x + 8 = 10$   
 $3x^2 + 14x - 2 = 10$   
 $3x^2 + 14x - 12 = 0$

$3x^2 + 14x + 8 = 10$   
 $4x^2 + 12x + 9 - (x^2 - 2x + 1) = 10$   
 $4x^2 + 12x + 9 - x^2 + 2x - 1 = 10$   
 $3x^2 + 14x + 8 = 10$

$3x^2 + 14x - 12 = 0$   
 $(3x-2)(x+6) = 0$

$3x^2 + 14x + 8 = 10$   
 $4x^2 + 12x + 9 - (x^2 - 2x + 1) = 10$   
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Factor the quadratic equation

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$3x^2 + 14x - 12 = 0$   
 $(3x-2)(x+6) = 0$   
 $3x-2 = 0$   
 $x = \frac{2}{3}$

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 $x+6 = 0$   
 $x = -6$

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 $3x-2 = 0$   
 $x = \frac{2}{3}$   
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 $x+6 = 0$   
 $x = -6$   
 $(3x-2)(x+6) = 0$   
 $x = \frac{2}{3}$  or  $x = -6$

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