Today's Plan:

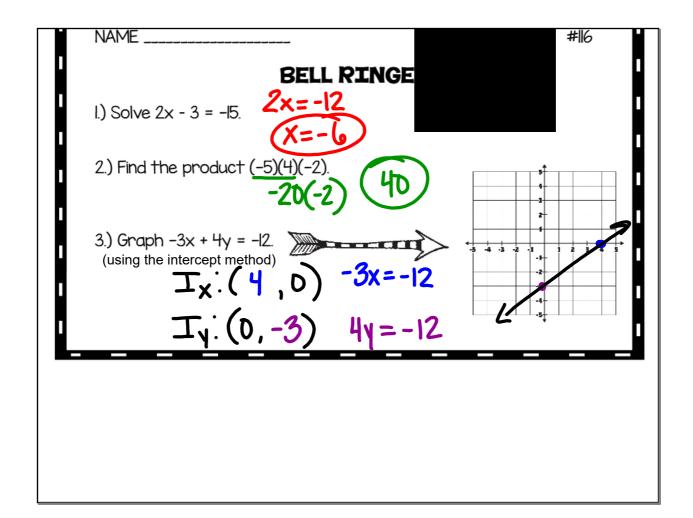
Learning Target (standard): I will solve quadratic equations by completing the square.

Students will: Complete practice problems over previous concepts at the boards, put up homework problems on the board and make necessary corrections to their own work, and take a test on solving quadratic equations.

Teacher will: Provide practice problems over previous concepts, check homework problems for accuracy and provide students feedback, describe and provide test problems.

Assessment: Board work, homework check and test

Differentiation: Students will work at the board, go over and correct homework at their seats, and actively engage in test problems.



$$3n^{2}-12n-37=-1$$

$$3n^{2}-12n = 3l_{0}$$

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Solve by taking square roots.

$$4a^{2}-2=34$$

$$4a^{2}=36$$

$$4^{2}=36$$

$$4^{2}=9$$

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Solve by factoring.

$$k^{2} = -2k - 1$$

$$K^{2} + 2k + 1 = 0$$

$$K^{2} + K + K + 1 = 0$$

$$K(K+1) + 1(K+1) = 0$$

$$(K+1)(K+1) = 0$$

$$(K+1)^{2} = 0$$

$$K = -1$$

Solve by completing the square.

$$3x^{2} + 6x - 4 = 8$$

$$3x^{2} + \frac{6x}{3} = \frac{12}{3}$$

$$x^{2} + \frac{12}{3} + \frac{1}{3} = \frac{12}{3} = \frac{$$

Solve by completing the square:

$$r^{2} + 18r + 39 = 7$$

$$r^{2} + 18r + 39 = 7$$

$$r^{2} + 18r + 81 = -32 + 81$$

$$(r + 9)^{2} = 49$$

$$r + 9 = 7, -7$$

$$(r - -2, -16)$$