

Today's Plan:

Learning Target (standard): I will solve quadratic equations and non-linear inequalities. I will graph quadratic equations.

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.

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 homework assignment

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

p.370 #1-18

$$1) x = -2, \frac{3}{2}$$

$$2) x = -\frac{4}{3}, \frac{3}{4}$$

$$3) x^2 - 9 = 0$$

$$4) 3x^2 - 8x - 3 = 0$$

$$5) x = -3 + 3\sqrt{2}, -3 - 3\sqrt{2}$$

$$6) x = -2 + \sqrt{5}, -2 - \sqrt{5}$$

$$7) x = -1 + \sqrt{7}i, -1 - \sqrt{7}i$$

$$8) x = \frac{1}{6} + \frac{\sqrt{95}}{6}i, \frac{1}{6} - \frac{\sqrt{95}}{6}i$$

$$9) x = -3 + \sqrt{10}, -3 - \sqrt{10}$$

$$10) x = \frac{1}{4}, 16$$

$$11) x = -3, 3, -\sqrt{2}, \sqrt{2}$$

$$12) x = \frac{3}{2}, 4$$

$$13) x = \frac{9}{4} \text{ (no solution)}$$

$$14) x = -9, 2$$

$$15) I_x : (-4, 0) \& \left(\frac{3}{2}, 0\right)$$

$$16) x = -\frac{3}{2}$$

17) graph

$$18) \left\{ x \mid -4 < x \leq \frac{3}{2} \right\}$$