Today's Plan:

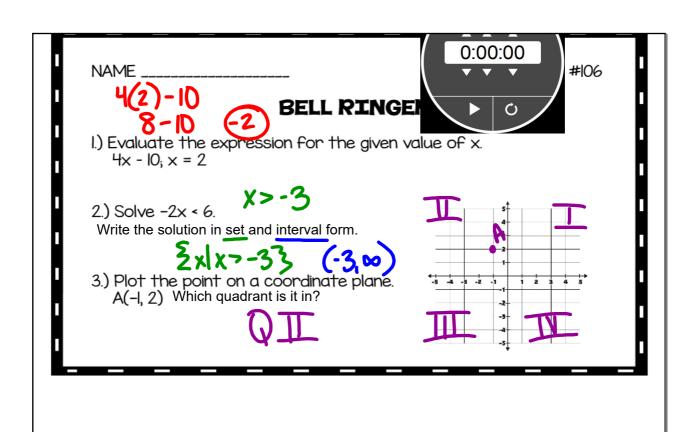
Learning Target (standard): I will factor trinomials by splitting the middle.

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 review polynomials.

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



Simplify.

$$-2(x^{3}-3x^{2}+5x-6)-3x^{2}(-2x+3x-4)$$

$$-2x^{3}+6x^{2}-10x+12+6x^{3}-9x^{4}+12x^{2}$$

$$-5x^{3}+18x^{2}-10x+12$$

Simplify.

$$\left(\frac{4x^2-6x+8}{-2x^2} \div \left(-2x^2\right)\right)$$

$$-2 + \frac{3}{x} - \frac{4}{x^2}$$

Simplify.

$$\frac{(3x^{2}-4x+2)(2x-5)}{(6x^{3}-15x^{2}-8x^{2}+20x+4x-10)}$$

$$\frac{(3x^{2}-4x+2)(2x-5)}{(6x^{3}-23x^{2}+24x-10)}$$

Factor.

$$y^{2} + 11y + 24$$

$$y^{2} + 8y + 3y + 24$$

$$y = 3$$

$$y(y+8) + 3(y+8)$$

$$(y+8)(y+3)$$

Factor.

$$u^2 - 12u + 32$$

$$\frac{v^2 - 8v - 4v + 32}{v - 4}$$

$$(u-8)(u-4)$$

Factor.

$$k^2 - 2k - 48$$

$$\frac{K^2 + lek - 8K - 48}{K}$$

$$K(K+4)-8(K+4)$$
 $(K+4)(K-8)$

Factor.

$$m^2 + 3m - 18$$

$$m + 3m - 18$$
 $6 - 3 = 3$

$$\frac{m^2 + lem - 3m - 18}{m}$$
 $\frac{m}{m} + \frac{3m - 18}{m}$
 $\frac{m}{m} + \frac{3m - 18}{m}$

Factor.

$$3t^2 - 14t + 8$$

$$3t^2 - 12t - 2t + 8$$

$$3t(t-4)-2(t-4)$$
 $(t-4)(3t-2)$

Completely Factor.
$$\frac{-4n^{4} + 40n^{3} - 100n^{2}}{-4n^{2}} - 4n^{2}$$

$$-4n^{2} \left(n^{2} - 10n + 25\right) \qquad 25$$

$$-5+.5=-10$$

$$\frac{n^{2} - 5n - 5n + 25}{n} - 5$$

$$-5 + .5=-10$$

$$(n-5) (n-5)$$

$$-4n^{2} (n-5)^{2}$$

Completely Factor.
$$5a^{3}b^{2} + 3a^{4}b - 2a^{2}b^{3}$$

$$3a^{4}b + 5a^{3}b^{2} - 2a^{2}b^{3}$$

$$a^{2}b + a^{2}b + a^{2}b$$

$$a^{2}$$

Completely Factor.

$$a^{4}-b^{4}$$
 $(a^{2}+b^{2})(a^{2}-b^{2})$
 $(a^{2}+b^{2})(a+b)(a-b)$

Assignment:

Polynomial & Factoring Review #2-24 even