Today's Plan:

Learning Target (standard): I will factor polynomials using various methods.

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 operation on polynomials and factoring.

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

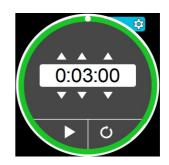
Bell Ringer:

Factor each.

$$18r^3 - 12r^2 + 21r - 14$$

$$75x^2 - 147y^2$$

$$32x^3 + 8x^2 + 48x + 12$$



$$\frac{18r^{3}-12r^{2}+21r-14}{4r^{2}}$$

$$4r^{2}(3r-2)+7(3r-2)$$

$$(3r-2)(4r^{2}+7)$$

Factor.

$$75x^{2} - 147y^{2}$$

$$3(25x^{2} - 49y^{2})$$

$$3(5x + 7y)(5x - 7y)$$

$$\frac{32x^{3} + 8x^{2} + 48x + 12}{8x^{2}(4x+1) + 12(4x+1)}$$

$$(4x+1)(8x^{2} + 12)$$

$$4(4x+1)(2x^{2} + 3)$$

Simplify.

$$(3xy-4)^{2} = (3xy-4)(3xy-4)$$

$$3xy(3xy-4)-4(3xy-4)$$

$$9x^{2}y^{2}-12xy-12xy+16$$

$$9x^{2}y^{2}-24xy+16$$

Simplify.

$$\frac{\left(4x^{5}\right)}{-2x^{2}} - \frac{6x^{3}}{-2x^{2}} + \frac{2x}{-2x^{2}} + \frac{8}{-2x^{2}} \div \left(-2x^{2}\right)$$

$$-2x^3+3x-\frac{1}{x}+\frac{4}{x^2}$$

$$\frac{2x}{2x \cdot x} = \frac{1}{-x}$$
$$= -\frac{1}{x}$$