Today's Plan:

Learning Target (standard): I will simplify polynomial expressions and factor them.

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 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:

* Remember to check for a GCF first!!

Factor.

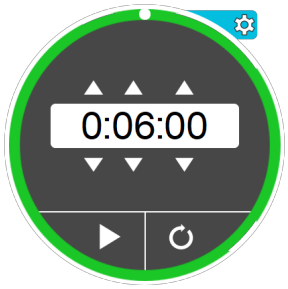
1) $5x^2 + 23x - 10$

2) $6x^2 - 2x - 20$

3) $4x^2 + 62x - 32$

4) $5x^2 - 17x + 14$

5) $3x^2 + 9x - 84$



Factor.

$2(3x^2-x-10)$

30

$5-6=-1$

$1)5x^2+23x-10=(5x-2)(x+5)$

$2)6x^2-2x-20=2(x-2)(3x+5)$

$3)4x^2+62x-32=2(x+16)(2x-1)$

$3x^2+5x-6x-10$

$x(3x+5)-2(3x+5)$

$4)5x^2-17x+14=(5x-7)(x-2)$

$5)3x^2+9x-84=3(x+7)(x-4)$

$2(3x+5)(x-2)$

Factor.

$2(2x^2+31x-16)$

32

$32-1=31$

$1)5x^2+23x-10=(5x-2)(x+5)$

$2)6x^2-2x-20=2(x-2)(3x+5)$

$3)4x^2+62x-32=2(x+16)(2x-1)$

$2x^2+32x-x-16$

$2x(x+16)-1(x+16)$

$4)5x^2-17x+14=(5x-7)(x-2)$

$5)3x^2+9x-84=3(x+7)(x-4)$

$2(x+16)(2x-1)$

Factor.

1) $5x^2+23x-10=(5x-2)(x+5)$

2) $6x^2-2x-20=2(x-2)(3x+5)$

3) $4x^2+62x-32=2(x+16)(2x-1)$

4) $5x^2-17x+14=(5x-7)(x-2)$

5) $3x^2+9x-84=3(x+7)(x-4)$

$3(x^2+3x-28)$

28

$7-4=3$

$x^2+7x-4x-28$

$x(x+7)-4(x+7)$

$3(x+7)(x-4)$

Completely Factor.

$a^2bc-4bc+a^2b-4b$

$\frac{a^2b}{b}+\frac{a^2bc}{b}-\frac{4b}{b}-\frac{4bc}{b}$

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

$a^2(1+c)-4(1+c)$

$b(1+c)(a^2-4)$

$b(c+1)(a+2)(a-2)$

Completely Factor.

$$y^4 - 2y^2 - y^3$$

$$\frac{y^4}{y^2} - \frac{y^3}{y^2} - \frac{2y^2}{y^2}$$

$$y^2(y^2 - y - 2)$$

2

$1 - 2 = -1$

$$y^2 + y - 2y - 2$$

-2

$$y(y+1) - 2(y+1)$$

$$y^2(y+1)(y-2)$$