Math 11 March 27th
Today:
(1) Review Common Factors
(2) 3 more Completing the Square Examples
(3) WORK! WORK!

Common factors

(a)
$$5y + 10 = 5(y + 2)$$

(b) $3x^2 + 12x - 6 = 3(x^2 + 4x - 2)$

(c) $-3x^2 - 6x^4 = -3x^2(1 + 2x^2)$

$$E_{X} I \quad y = (x^{2} - 3x) + 7$$

$$y = (x^{2} + 3x + \frac{9}{4}) - \frac{9}{4} + (\frac{7}{4})^{\frac{28}{4}}$$

$$y = (x - \frac{3}{2})^{2} + \frac{19}{4} \quad \text{Jertix} \left(\frac{3}{3}, \frac{19}{4}\right)$$

$$y \ge \frac{19}{4}$$

$$x = \frac{3}{2}$$

$$y = 2x^{2} + 8x + 5$$

$$y = 2x^{2} + 4x + 4 + 5$$

$$y = 2(x + 2)^{2} - 8 + 5$$

$$y = 2(x + 2)^{2} - 3$$

Ex3
$$y = (-0.5x^2 + 10x) - 3$$

 $y = -0.5(x^2 - 20x + 100) + 50 - 3$
 $y = -0.5(x - 10)^2 + 47$ Ta da.!!

What is the best way to build your own muscles?

Go work but.