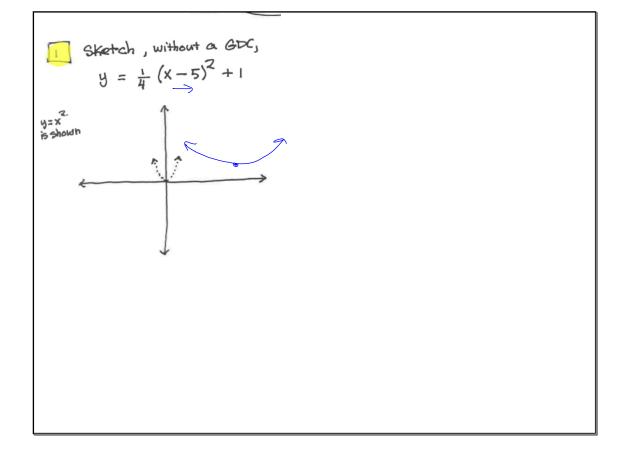
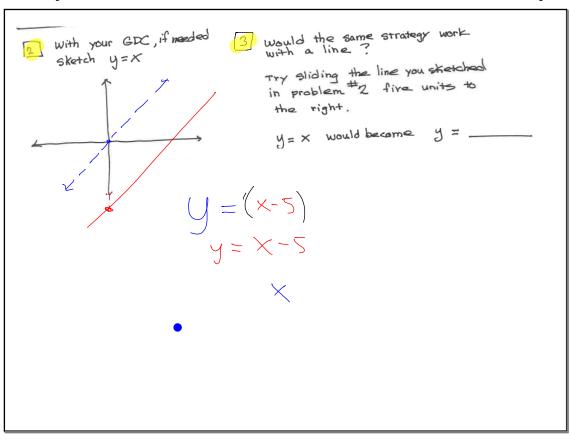
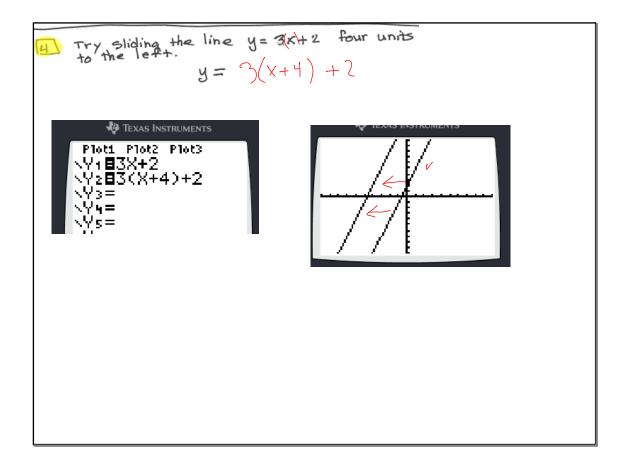
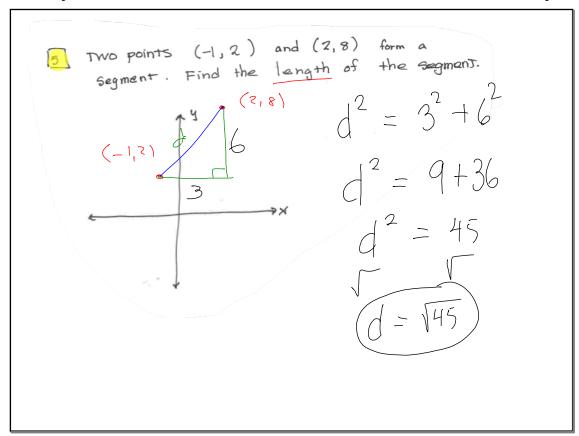
Pick up the Warm Up

HW Questions...you know what to do.









Now find the equation (-1,2) and (2,8)

that posses through the two points.

$$M = \frac{8-2}{2-1}$$

$$M = \frac{8-2}{2-1}$$

$$M = \frac{6}{3} = 2$$

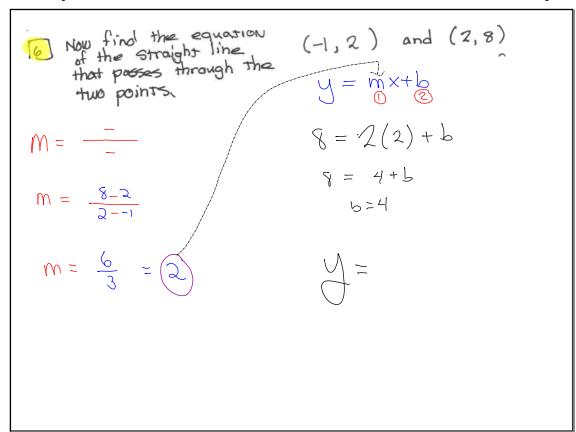
And (2,8)

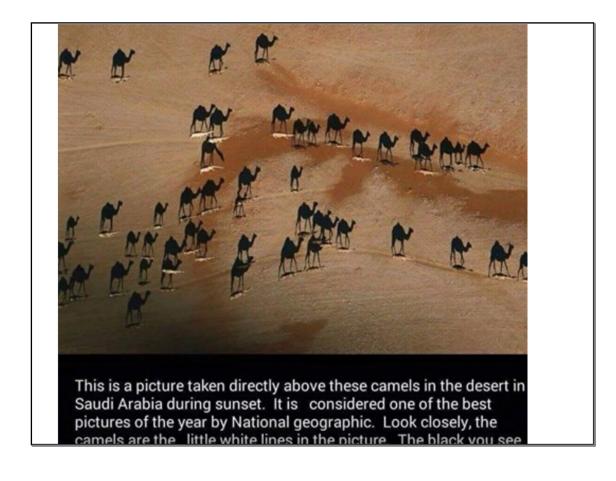
$$M = \frac{8}{2}$$

$$M = \frac{8-2}{2-1}$$

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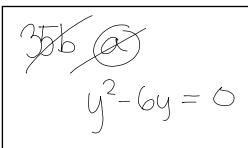
$$M = \frac{6}{3} = 2$$

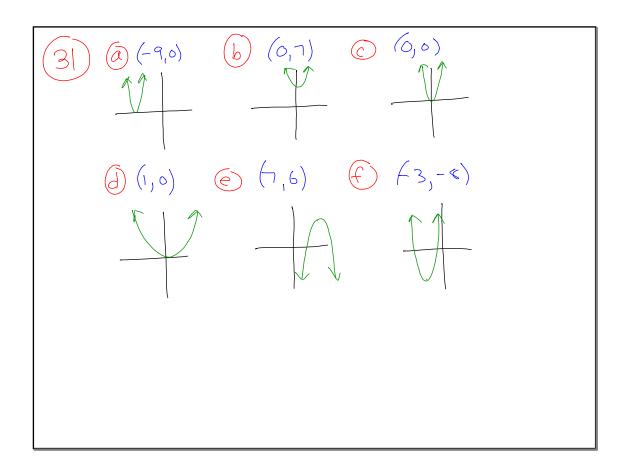




Questions on Hw?

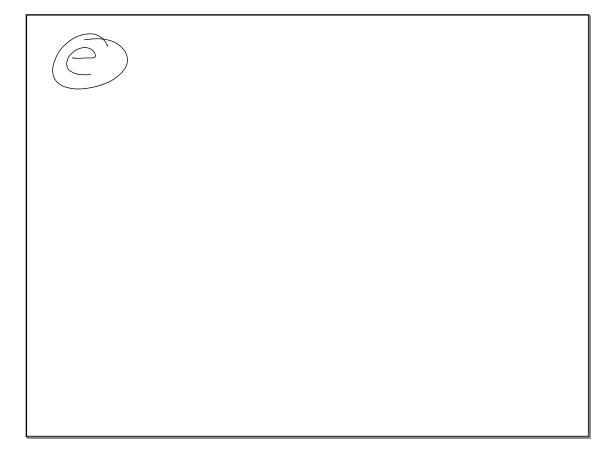
$$38$$
 | 1998 | 8 G | 10% | $y = 90$ | $y = 9$







$$Q_{X} = 16$$



Background - No Notes

Three forms of Quadratic Equations

standard form

$$y = ax^2 + bx + C$$

$$y = 3x^2 + 2x - 5$$

graphing form

$$y = \alpha (x-h)^2 + k$$
where (h,k) is
the vertex

$$y = 1(x+4)^{2} - 6$$
 $(-4, -6)$ 8 the

$$y = \alpha (x+d)(x+e)$$

X-intercepts are

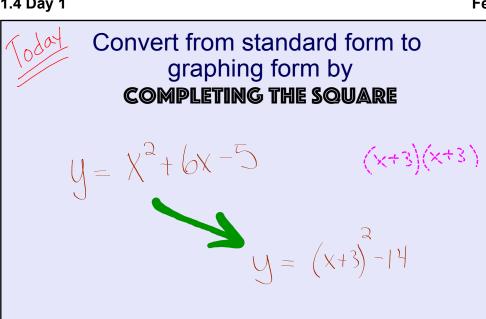
$$(-d,0)$$
 and $(e,0)$

Each function form has its equation equivalent.

$$3\chi^2 + 2x - 6 = 0$$

$$\frac{1}{2}(x-7)(x+2) = 0$$

Notes not needed



The technique:

$$y = x^{2} + 6x - 5 + 9$$

$$y + 9 = x^{2} + 6x - 5$$

$$y + 9 = x^{2} + 6x - 5$$

$$y + 9 = x^{2} + 6x - 5$$

$$y + 9 = x^{2} + 6x - 5$$

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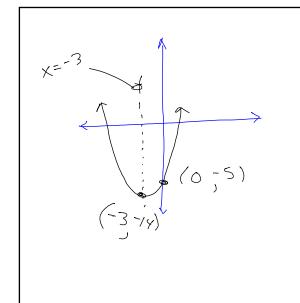
$$y + 9 = x^{2} + 6x - 5$$

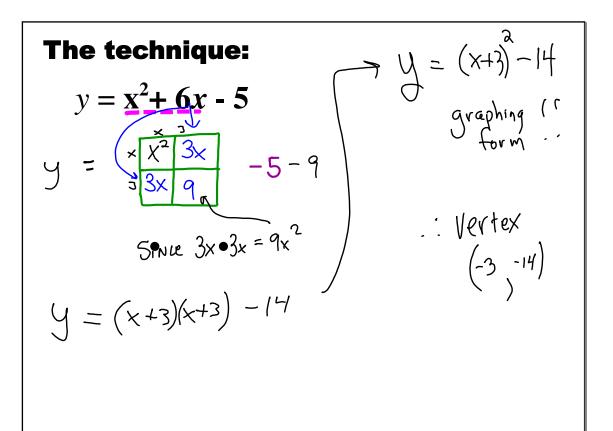
$$y + 9 = x^{2} + 6x - 5$$

$$y + 9 = x^{2} + 6x - 5$$

$$y + 9 = x^{2} + 6x - 5$$

$$y +$$





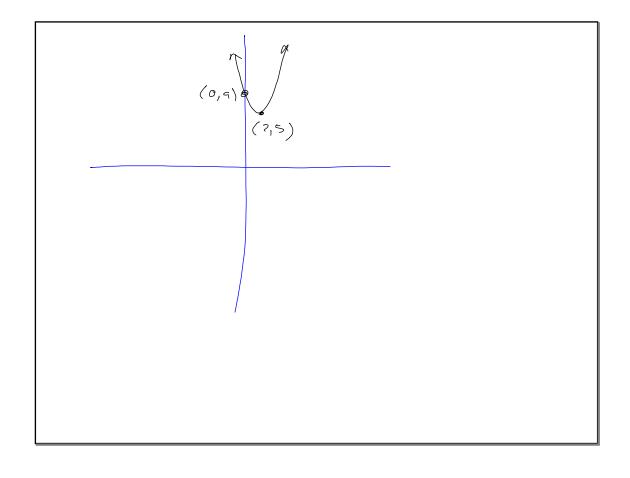
Convert, find vertex, then sketch
$$f(x) = x^{2} - 4x + 9$$

$$f(x) + 4 = x + 2 - 2x + 4$$

$$f(x) + 4 = (x - 2)^{2} + 9$$

$$f(x) + 4 = (x - 2)^{2} + 9$$

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



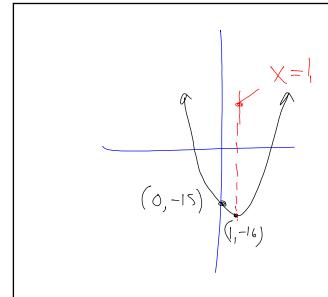
$$f(x) = (x-2)^2 + 5$$

$$y-intercept ? axis of symmetry?$$

$$y = x^{2} - 2x - 15$$

$$y + 1 = (x - 1)^{2} - 15$$

$$y = (x - 1)^{2} - 16$$



Use your graphing calculator to verify that they are equivalent

$$y_1 = x^2 - 2x - 15$$

 $y_2 = (x - 1)^2 - 16$

$$y_2 = (x - 1)^2 - 16$$



notes: find the x-intercepts of a parabola when the x-intercepts really suck

$$y = x^{2} + 8x + 10$$

$$0 = x^{2} + 8x + 10$$

See your Exit Ticket

You won't always be told ahead of time when there will be an Exit Ticket.

Assignment

2- 50ac, 52, 53a, 55ab 56a

