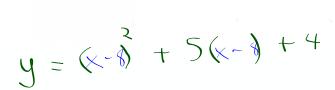


Transform the parapola y= x2+5x+4

8 units to the right .

$$y = (x-8)^2 + 5(x-8) + 4$$

Graph and make a sketch



1.
$$4x^2 - 1 =$$

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

3.
$$36x^2 - 9 = 9(4x^2 - 1)$$

 $9(2x+1)(2x-1)$

4.
$$100x^2 - 81 = (10x + 9)(10x - 9)$$

5.
$$25x^2 - 4 =$$

6.
$$81x^2 - 121 = (9x + 11)(9x - 11)$$

7.
$$x^2 - 16 = (X + 4)(x - 4)$$

8.
$$144x^2 - 16 = 16 \left(\frac{9x^2 - 1}{3x + 1} \right) \left(\frac{3x + 1}{3x - 1} \right)$$

7. $x^2 - 16 = (X + 4)(X - 4)$ 8. $144x^2 - 16 = 16(9x^2 - 1)$ Cross out the correct answers below. Use the remaining letters to complete the statement statement.

(x + 13) (x - 13)	16 (3x-1) (3x-1)	(x=4) (x+4) s	(6x+5) (6x-5)	(25 - 4x) (25 + 4x)	(x+1) (x-1) ;;
THE	SUM		PRO	QUO	DUC
(9 + x) (9 - x)	9 (2x - 1) (2x + 1)	(x+7) (x−7) —	(2x+1) (2x - 1)	(9x+1) (9x - 1)	(x + 2) (x - 2) (AND
TOF	TIE	THE	NTA	SUM	
(10 - x)(10 + x) WAS	(5x+3) (5x-3)	(x-5) (x+5)	(8x+1) (8x-1) EFR	(11x - 7) (11x + 7) . MAN	(x - 6) (x + 6) NER

7.
$$x^2 - 16 =$$

8.
$$144x^2 - 16 =$$

9.
$$x^2 - 25 =$$

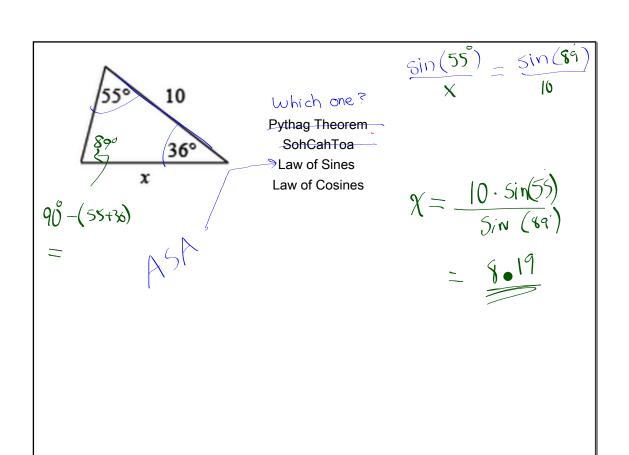
10.
$$625 - 16x^2 =$$

11.
$$100 - x^2 =$$

12.
$$x^2 - 36 =$$

13.
$$121x^2 - 49 =$$

14.
$$49x^2 - 16 =$$



$$\frac{\sin 55^{\circ}}{x} = \frac{\sin 89^{\circ}}{10}$$

$$x \sin 89^{\circ} = 10.5 \sin 55^{\circ}$$

$$x = \frac{(0 \sin 55^{\circ})}{\sin 89^{\circ}} \approx 8.2$$

Questions on HW

2-17
$$p(x) = x^2 + 5x - 6$$

(a) y-intercept (0, -6)

(b) $y = x^2 + 5x - 6$

(c) $y = x^2 + 5x - 6$

(d) $y = x^2 + 5x - 6$

(e) $y = x^2 + 5x - 6$

(f) $y = x^2 + 5x - 6$

(g) $y = x^2 + 5x - 6$

(g) $y = x^2 + 5x - 6$

(h) $y = x^2 + 5x - 6$

(o) $y = x^2 + 5x - 6$

$$X = \frac{-(5) \pm \sqrt{(5)^2 - 4(1)/6}}{2(1)}$$

$$X = \frac{-5 \pm \sqrt{49}}{2} = \frac{-5 \pm 7}{2}$$

$$X = \frac{-5 \pm 7}{2} = \frac{2}{3} = \frac{1}{(1,0)}$$

$$X = \frac{-5 \pm 7}{3} = \frac{2}{3} = \frac{1}{(1,0)}$$

$$X = \frac{-5 \pm 7}{3} = \frac{2}{3} = \frac{1}{(1,0)}$$

$$X = \frac{-5 \pm 7}{3} = \frac{2}{3} = \frac{1}{(1,0)}$$

$$\frac{19 \otimes \left(\frac{1}{81}\right)^{-\frac{1}{4}}}{6} = \left(\frac{81}{1}\right)^{\frac{1}{4}} = \sqrt{\frac{81}{1}}$$

$$=\frac{X_{s}}{1}\cdot\frac{1}{k!_{s}}$$



$$\frac{19}{6} \left(2x \right)^{-2} \left(\left(6x^{2} \right)^{\frac{1}{2}} \right)$$

$$\begin{array}{lll}
\boxed{20} & \text{First Week (each buy a papeorn + 1 drink)} \\
P = & \text{Price of } \\
d = & \text$$

$$3p + \beta J = 27.50$$

$$-p + 3J = 13.50$$

$$+ p = 9.00$$

$$p = 4.50$$

$$\frac{21c}{d} = \sqrt{(0-5)^2 + (5-6)^2}$$

$$\sqrt{(-5)^2 + 5^2}$$

$$\sqrt{50} = \sqrt{25}\sqrt{2} = 5\sqrt{2}$$

18 (a)
$$4^{\frac{7}{2}} = 8$$

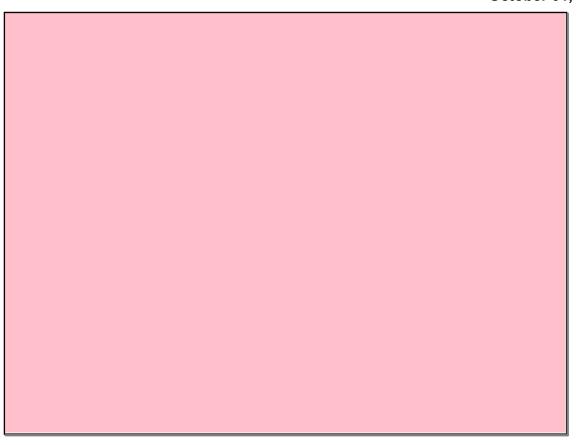
Left exponent = right exponent

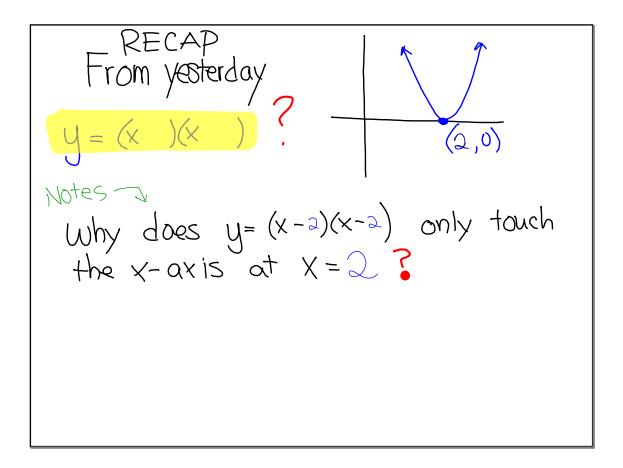
 $2^{\frac{7}{2}} = 3$
 $2^{\frac{7}{2}} = 3$
 $2^{\frac{7}{2}} = 3$
 $2^{\frac{7}{2}} = 3$
 $2^{\frac{7}{2}} = 3$

$$9p + 3d = 27.50$$

$$9p + 3d + 3(8) = 37.5$$







From yesterday

$$y = (x)(x)$$

Why does $y = (x-5)(x-5)$ only touch

the x-axis at $x = 5$?

Where will
$$y = (x-8)(x-8)$$
 touch the x-axis?

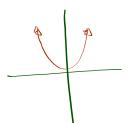
$$y = (x+2)(x+2)$$

$$y = (x-4)$$

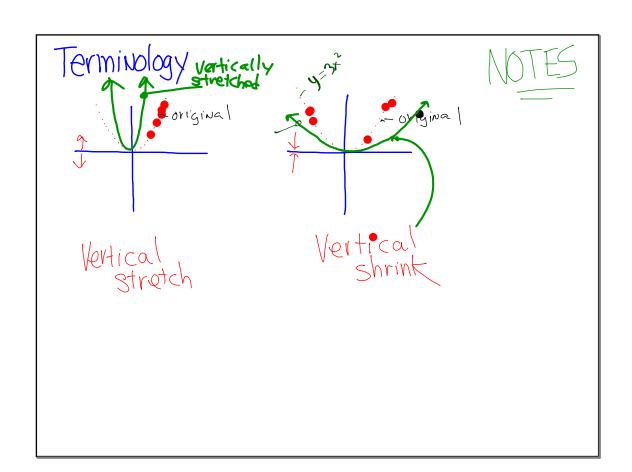
$$y = (x+3)(x-1)$$

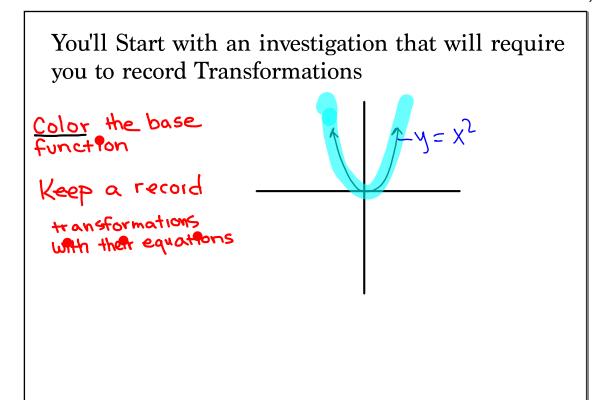
NOTES

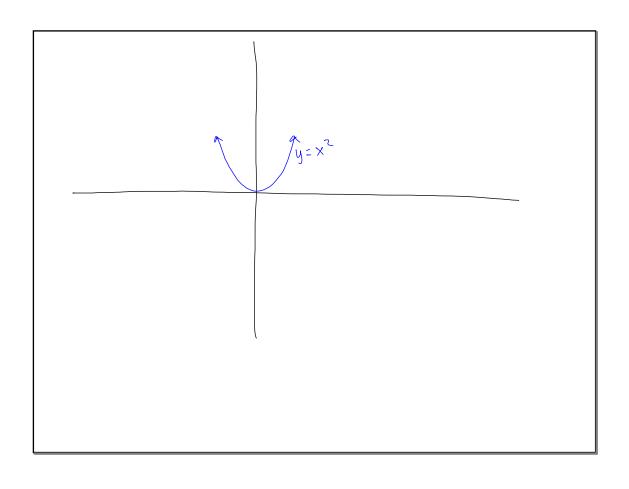
Determine all of the ways to transform a PARABOLA by changing its equation.

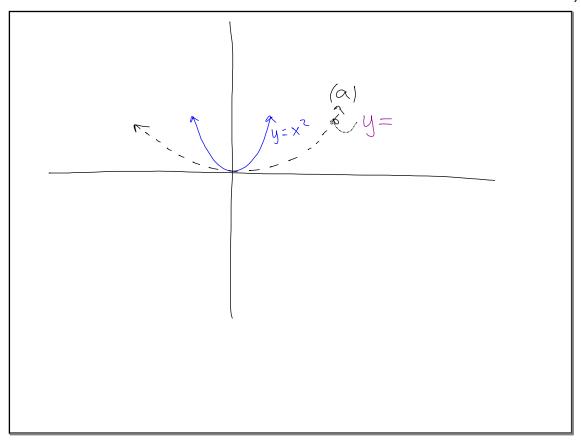


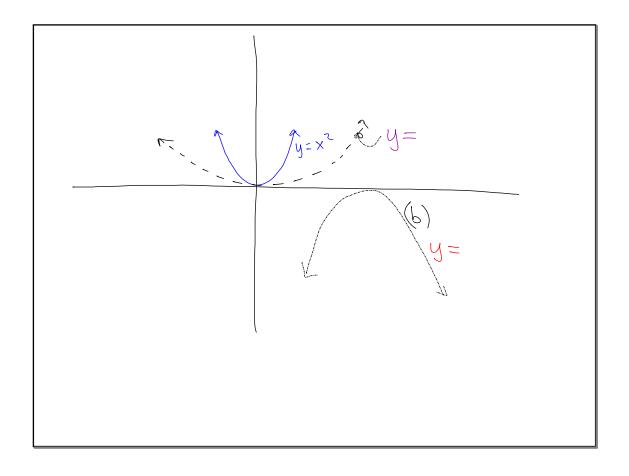
Today's AIM

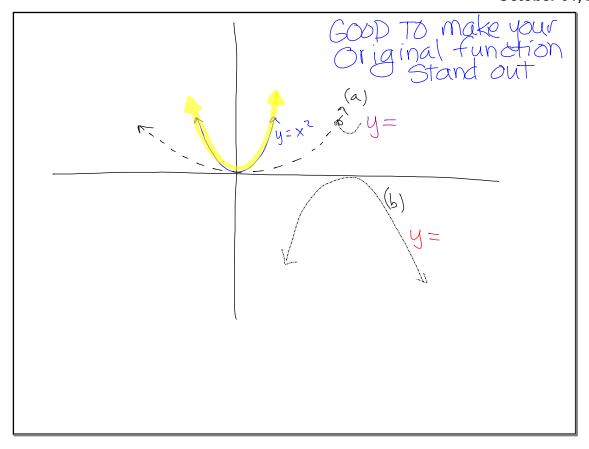


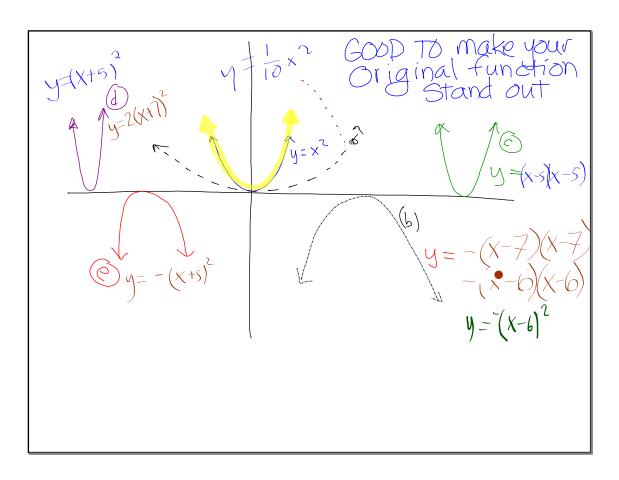


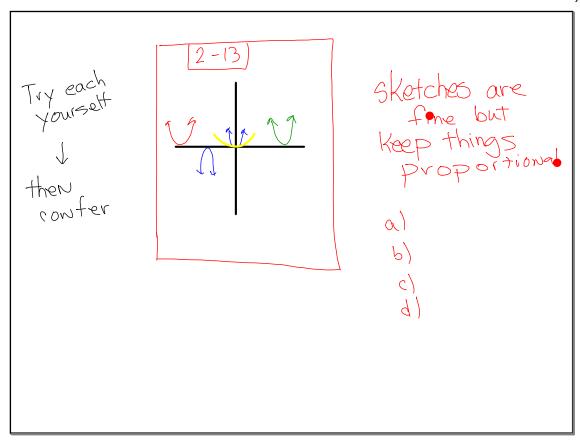






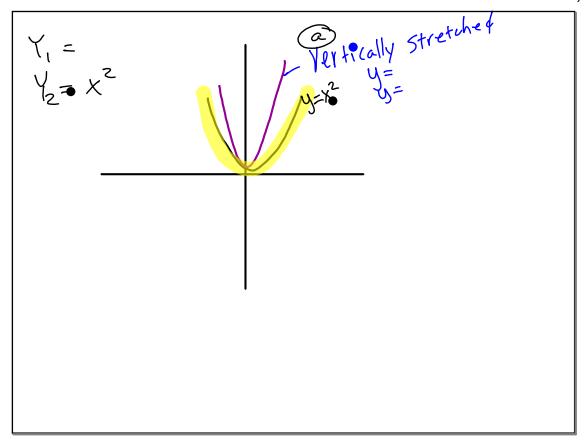


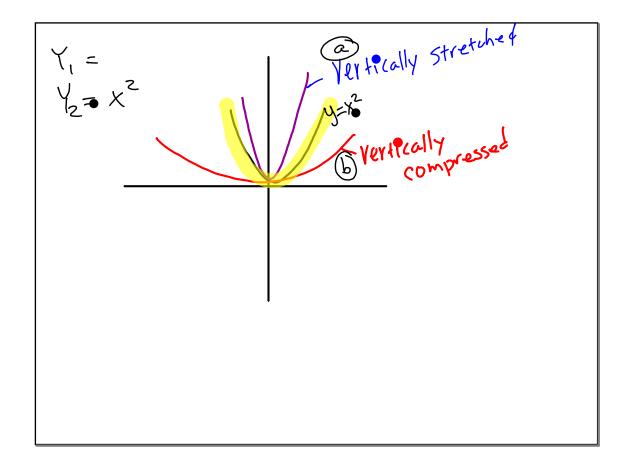


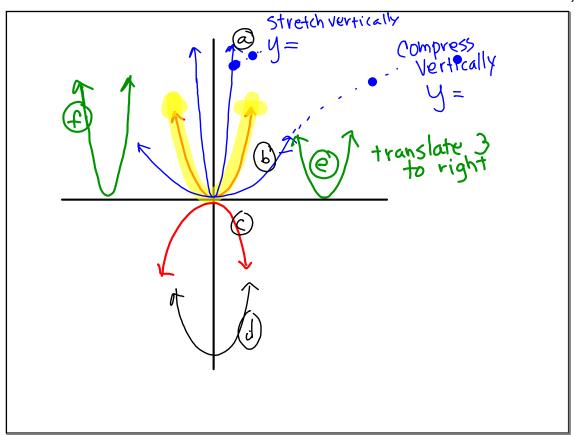


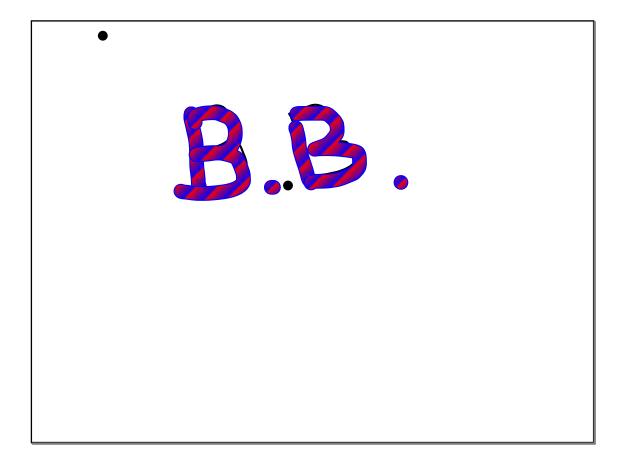
Work through

2-1.13 on page 62





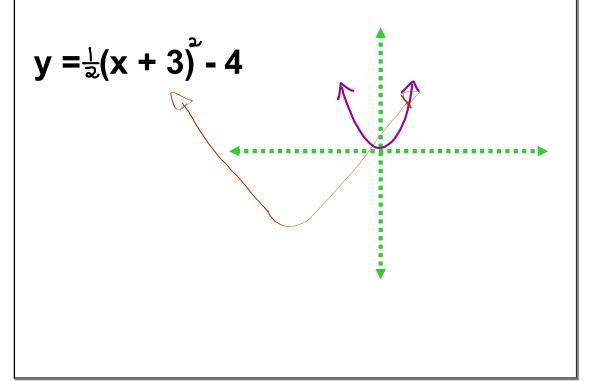




Closure

$$y = 2(x - 6)^2 + 3$$

Without Using a GDC, sketch the following....



Quiz on Sequences † Expon. Functions tomorrow Turn in HW Packet with 6 assignments.

Assignment

2 - 23 to 27, 28a, 29