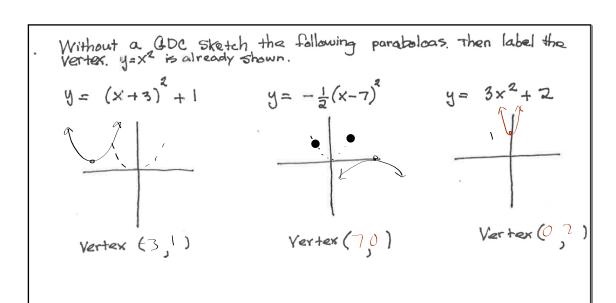
HW tally

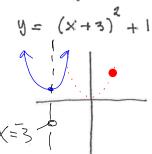


Then Pick up and do the Warm Up (both sides)

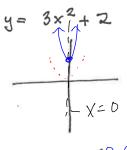
LCQ (no calculator) later today



. Without a QDC sketch the following paraboloas. Then label the vertex. y=x2 is already shown.



 $y = -\frac{1}{2}(x-7)^2$



Vertex (3,1)

Vertex (7,0)

Vertex (0,2)

Y=X

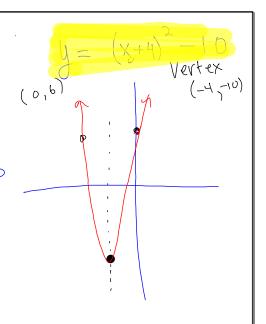
2. Go back, and, with a dashed line, draw the line of symmetry and label with its equation.

$$y+16 = (x+4)^2 + 6$$

$$A = (x+4)_5 - 10$$



$$9 + 16 = (x + 4)^{2} + 16$$



Find the distance between the two points
$$(5,-2)$$
 and $(1,4)$

$$\frac{1}{4} = (\frac{1}{3} + (\frac{1}{3})^{2})$$

$$\frac{1}{4} = (\frac{1}{3} + \frac{1}{4})^{2}$$

$$\frac{1}{4} = (\frac{1}{3} + \frac{1}{4})^{2}$$

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Distance / Formula

Distance formula

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

d = distance

 (x_1,y_1) = coordinates of the first point

 (x_2,y_2) = coordinates of the second point

(5)
$$y = (x-3)^2 - 25$$

a) without a GDC

 f and the Vertex

b) without a GD c find the exact x -intercepts

(look for a quick method $x = 3 + 5$
 $(x-3)^2 - 25 = 0$
 $(x-3)^2 - 25 = 0$

You will
check your AW
Monday.

unless we have time
at the end of
the period.

Protocol when checking HW

Keep your HW out so, if I walk around, I can look at it.

If you did not do it, I expect to see a **O** written on your recording sheet before I get to your desk.

Any questions on HW?

$$4x^{3} + 23x^{2} - 3x = 0$$

$$x (4x^{2} + 23x - 2) = 0$$

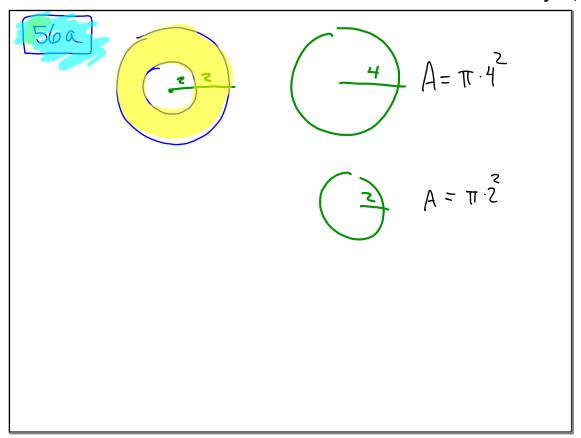
$$4x^{2} + 23x - 2 = 0$$

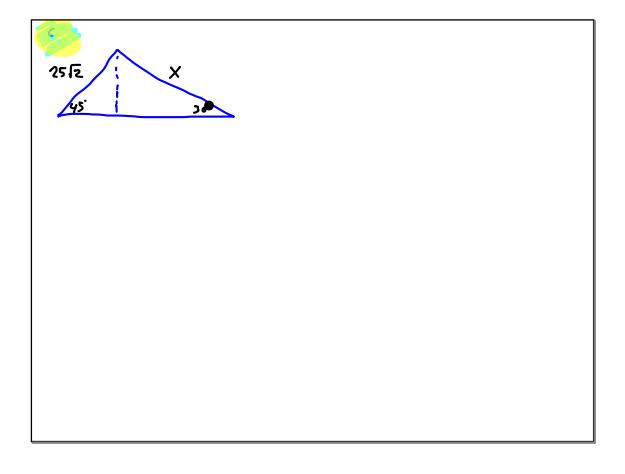
$$4x^{2} + 23x - 2 = 0$$

$$a = 4$$

$$b = 23$$

$$c = -7$$



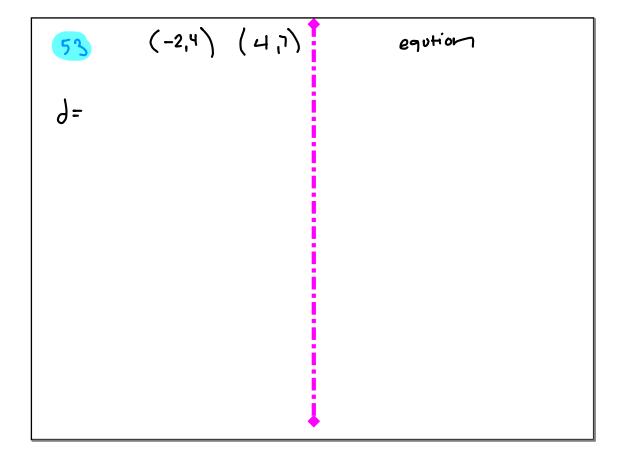


50 a		

50 2		

$$y = x^{2} + 7x - 2$$

$$y = x^{$$



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So, far we have two ways of starting from standard form
$$f(x) = ax^2 + bx + c$$
and converting to graphing form
$$f(x) = a(x-h) + K$$

Finding the complete the square to convert and averaging them

Aim Today.

Deal with variations of both methods

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NOTES Convert
$$y = x^2 + 5x + 2$$

Using Completing the Square

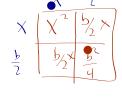
$$y = x^2 + 5x + 2$$

$$x = x$$

How does one complete the square for
$$y^{\frac{1}{4}} = x^2 + bx^{\frac{1}{4}} + 20$$

$$y + \frac{b^2}{4} = (x + \frac{b}{2}) + 20$$

$$y = \left(x + \frac{5}{2}\right) + 50 - \frac{5}{4}$$



$$\frac{1}{5} \times \frac{1}{5} \times = \frac{1}{5}$$

Complete the Square when $a \neq 1$

$$\frac{y}{2} = \frac{2x^2 - 16x + 5}{2}$$

$$\frac{9}{2} + 16 = x^2 - 8x + 16 + \frac{5}{2}$$

$$y + 32 = 2(x-4)^{2} + 5$$

$$\frac{y}{z} = \frac{2x^{2} - \frac{16x}{z}}{z^{2}}$$

$$\frac{y}{z} + \frac{16}{z} = \frac{x^{2} - 8x + \frac{16}{z}}{z^{2}}$$

$$\frac{y}{z} + \frac{16}{z} = \frac{x^{2} - 8x + \frac{16}{z}}{z^{2}}$$

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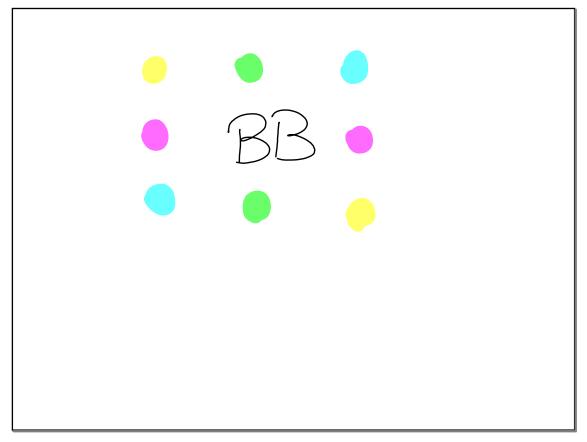
$$\frac{y}{z} + \frac{16}{z} = \frac{x^{2} - 8x + \frac{16}{z}}{z^{2}}$$

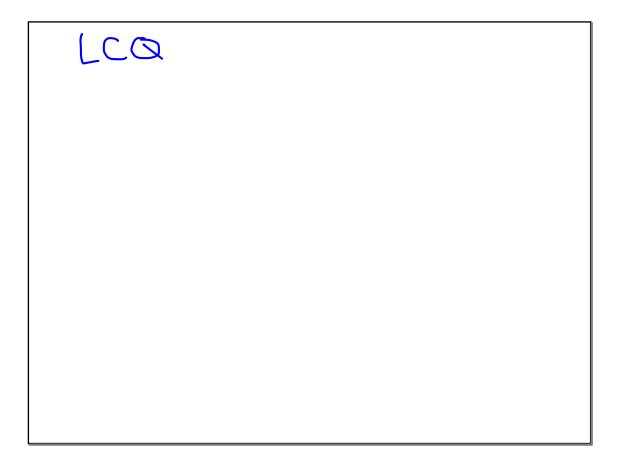
$$\frac{y}{z} + \frac{16}{z} = \frac{x^{2} - 8x + \frac{16}{z}}{z^{2}}$$

$$\frac{y}{z} + \frac{16}{z} = \frac{x^{2} - 8x + \frac{16}{z}}{z^{2}}$$

$$y = 2x^2 - 16x + 5$$

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After you turn in your LCQ, check your HW solutions and then return the solutions.

Assignment

2-... 50bd , 59-63

record on the <u>blue</u> recording sheet

