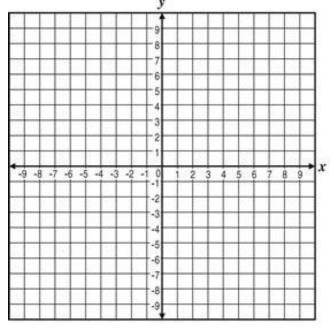
FRIDAY, MARCH 8. 2019

- Warm-up
 - Graph the following: $f(x) = 2x^2 4x 6$
 - Mark and state the y-intercept, x-intercept, axis of symmetry and vertex



- Practice All Together
- PBL Work

Objectives

Content: I will be able to determine **y-intercept**, **x-intercept**, **vertex**, **focus** and **directrix** from the standard form of the quadratic equation.

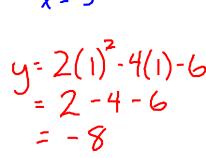
Social: I will do my best today to stay focused and take good notes.

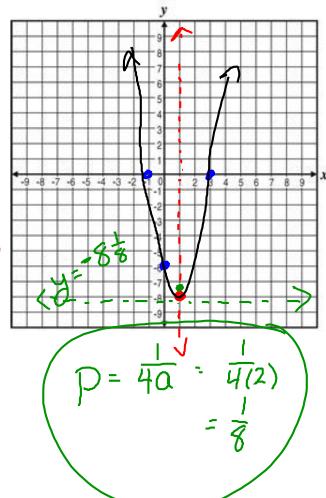
$$f(x) = 2x^{2} - 4x - 6$$

$$2(x^{2} - 2x - 3)$$

$$2(x - 3)(x + 1)$$

- y intercept: (0, -6)
- x intercept: (3,0)(-1,0)
- axis of symmetry: X= 1
- vertex: (1,-8)
- focus: $\left(1 7\frac{7}{8}\right)$
- directrix: $y = -8\frac{1}{8}$





Objectives

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Social: I will do my best today to stay focused and take good notes.

ADD FOCUS & DIRECTRIX TO POSTER FROM THE OTHER DAY

Objectives

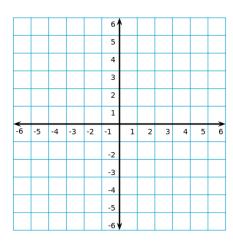
Content: I will be able to determine **y-intercept**, **x-intercept**, **vertex**, **focus** and **directrix** from the standard form of the quadratic equation.

Social: I will do my best today to stay focused and take good notes.

YOU PRACTICE

$$y = x^2 - 4x - 5$$

- y intercept:
- x intercept:
- axis of symmetry:
- vertex:
- focus:
- directrix:



Objectives

Content: I will be able to determine **y-intercept**, **x-intercept**, **vertex**, **focus** and **directrix** from the standard form of the quadratic equation.

Social: I will do my best today to stay focused and take good notes.

Challenge: find the quadratic equations given the following

Focus: (4, 6)

Directrix: y = 0

x-intercepts: (0, -3) and (0, 6)

a = 1

Vertex: (-2, 4)

a = -1

Focus: (3, -2)

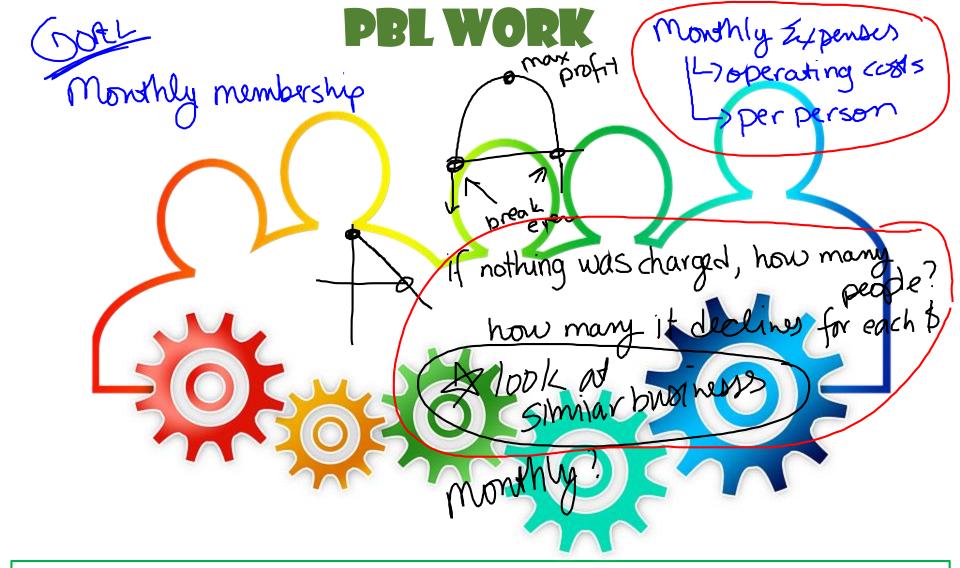
Directrix: y = 4

Objectives

Content: I will find and identify critical values of a parabola including y-intercept, x-intercept, vertex, focus and directrix.

Social: I will help those around me to understand by explaining my reasoning clearly.

Language: I will use the vocabulary for the critical values of a parabola including y-intercept, x-intercept, vertex, focus and directrix correctly in speaking.



Objectives

Content: I will be able to determine **y-intercept**, **x-intercept**, **vertex**, **focus** and **directrix** from the standard form of the quadratic equation.

Social: I will do my best today to stay focused and take good notes.