## FRIDAY, MARCH 8.2019

- Warm-up
- Graph the following: $f(x)=2 x^{2}-4 x-6$
- 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. Language: I will clearly define determine y-intercept, x-intercept, vertex, focus and directrix in writing for my own reference.

$$
\begin{aligned}
& f(x)=\left(2 x^{2}-4 x-6\right. \\
& 2^{2}\left(x^{2}-2 x-3\right)^{2}
\end{aligned}
$$

WARM-UP

- $y$ - 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: $y=-8 \frac{1}{8}$


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## YOUPRACTICE

## $y=x^{2}-4 x-5$

- y - intercept:
- x - intercept:
- axis of symmetry:

- vertex:
- focus:
- directrix:


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# Challenge: find the quadratic equations given the following 

| Focus: $(4,6)$ | $x$-intercepts: $(0,-3)$ and $(0,6)$ |
| :---: | :---: |
| Directrix: $y=0$ |  |$\quad$|  |  |
| :---: | :---: |
| Fertex: $(-2,4)$ | Focus: $(3,-2)$ |
| $a=-1$ | 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.

Coots
mostly $\pi_{i p o n e s}$
Monthly membership


A nothing was hare, how mana people?


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