## friday, february 22. 2019

- Warm-up
- Graph the following parabola: $f(x)=2 x^{2}+4 x-6$
- Mark the $y$-intercept(s), x-intercept(s), and vertex
- Review graphing quadratics
- Introduce focus \& directrix


## Objectives:

Content: I will review parabolas and add new components including the focus and directrix. Social: I will listen well and not distract others from the lesson.
Language: I will write clear notes with the definition of focus and directrix in various forms.

$$
\begin{aligned}
& \text { Шаrm-טp } \\
& \text { vertex: } \\
& \begin{array}{l}
(-1,-8) \\
2(-1)^{2}+4(-1)-6
\end{array} \\
& 2 \cdot 1-4-6 \\
& \frac{2-4-6}{-2.6} \\
& f(x)=a x^{2}+b x+c \\
& \text { axis of symmetry } \\
& -\frac{b}{2 a}
\end{aligned}
$$

## What are a focus and dirceß๙x:

- New definition of parabola: "the set of all points that are equidistant from a point and a line"
same $^{\text {and }}$ ate ${ }^{\text {The }}$. focus is the

- The directrix is the



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