friday, february 22, 2019

- Warm-up
 - Graph the following parabola: $f(x) = 2x^2 + 4x 6$
 - 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.

Warm-up $f(x) = 2x^2 + 4x - 6$ $\Rightarrow 2(x^2 + 2x - 3)$ x-intercept(s): (1,0)(-3,0) = 2(x-1)(x+3)X-1=0 X+3=0 y-intercept(s):(o,-6) vertex: axis of symmetry Focus = $(-1, -7\frac{1}{a})$ Directrix = $\sqrt{2-8\frac{1}{a}}$

Objectives:

Content: I will review parabolas and add new components including the focus and directrix.

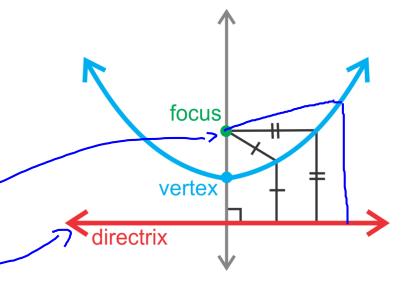
Social: I will listen well and not distract others from the lesson.

This soil band dies and dies this?

 New definition of parabola: "the set of all points that are equidistant from a point and a line"

same. The focus is the point

• The directrix is the ____ine__



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Focus-> (1,3) **STEPS** Distance from Distance from parabola to directrix Parabola to focus use distance formula,

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