

# 2 PAGE REVIEW ON FOCUS & DIRECTRIX

NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

## ALGEBRA 2 TEST PREP

### Focus & Directrix of a Parabola

In Algebra 1 you learned about the vertex, or turning point, of a parabola. In Algebra 2, we use more exact terms, depending on whether the focus and directrix. Both the focus and directrix are equidistant from the vertex.

Remember! A parabola opens up if the coefficient of the squared term,  $a$ , is positive. This is important to determine which way the parabola opens. The focus is always located "inside" the U shape of the parabola.

Let's practice writing the equation of a parabola, given the focus and directrix, using the formula below.

$$y - k = \frac{1}{4a}(x - h)^2 + c$$
$$y - k = \frac{1}{4a}(x - h)^2 + \frac{1}{4a}(k - p)$$

Example 1: Find the graph below to write the equation of the parabola that has a focus at  $(-2, 2)$  and a directrix of  $y = -4$ .

- Circle out all given data (focus and directrix).
- Write the coordinates of the vertex. It will be halfway between the focus and directrix. The vertex is  $(-2, -1)$ .
- Circle the vertex, write the standard form of the parabola, and circle the vertex coordinates.  $(y + 1)^2 = 4a(x + 2)^2$
- Circle the  $a$  and substitute the vertex coordinates to solve for  $a$ .  $(-1 + 1)^2 = 4a(-2 + 2)^2$
- Plug information into the equation.

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Example 2: Consider the parabola with vertex  $(2, 2)$  and directrix  $y = 4$ . Write the equation of the parabola. (The rest of the page is optional.)

Example 3: Write the equation of a parabola that has a focus at  $(-3, 3)$  and a directrix of  $x = 1$ . (The rest of the page is optional.)

Example 4: Write the equation of a parabola that has a focus at  $(-2, 2)$  and a directrix of  $x = 2$ . (The rest of the page is optional.)

Example 5: Write the equation of a parabola that has a focus at  $(-2, 2)$  and a directrix of  $x = -2$ . (The rest of the page is optional.)

Example 6: Write the equation of a parabola that has a focus at  $(-2, 2)$  and a directrix of  $x = -2$ . (The rest of the page is optional.)

Example 7: Write the equation of a parabola that has a focus at  $(-2, 2)$  and a directrix of  $x = -2$ . (The rest of the page is optional.)

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Example 9: Write the equation of a parabola that has a focus at  $(-2, 2)$  and a directrix of  $x = -2$ . (The rest of the page is optional.)

Example 10: Write the equation of a parabola that has a focus at  $(-2, 2)$  and a directrix of  $x = -2$ . (The rest of the page is optional.)



# Focus And Directrix Word Problem Worksheets

**H Kauffman**



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