1. Label the focus. Add and label directrix to the graph below. The *p*-value of the parabola is 5.

Vertex = (9, 13)

(x, y)
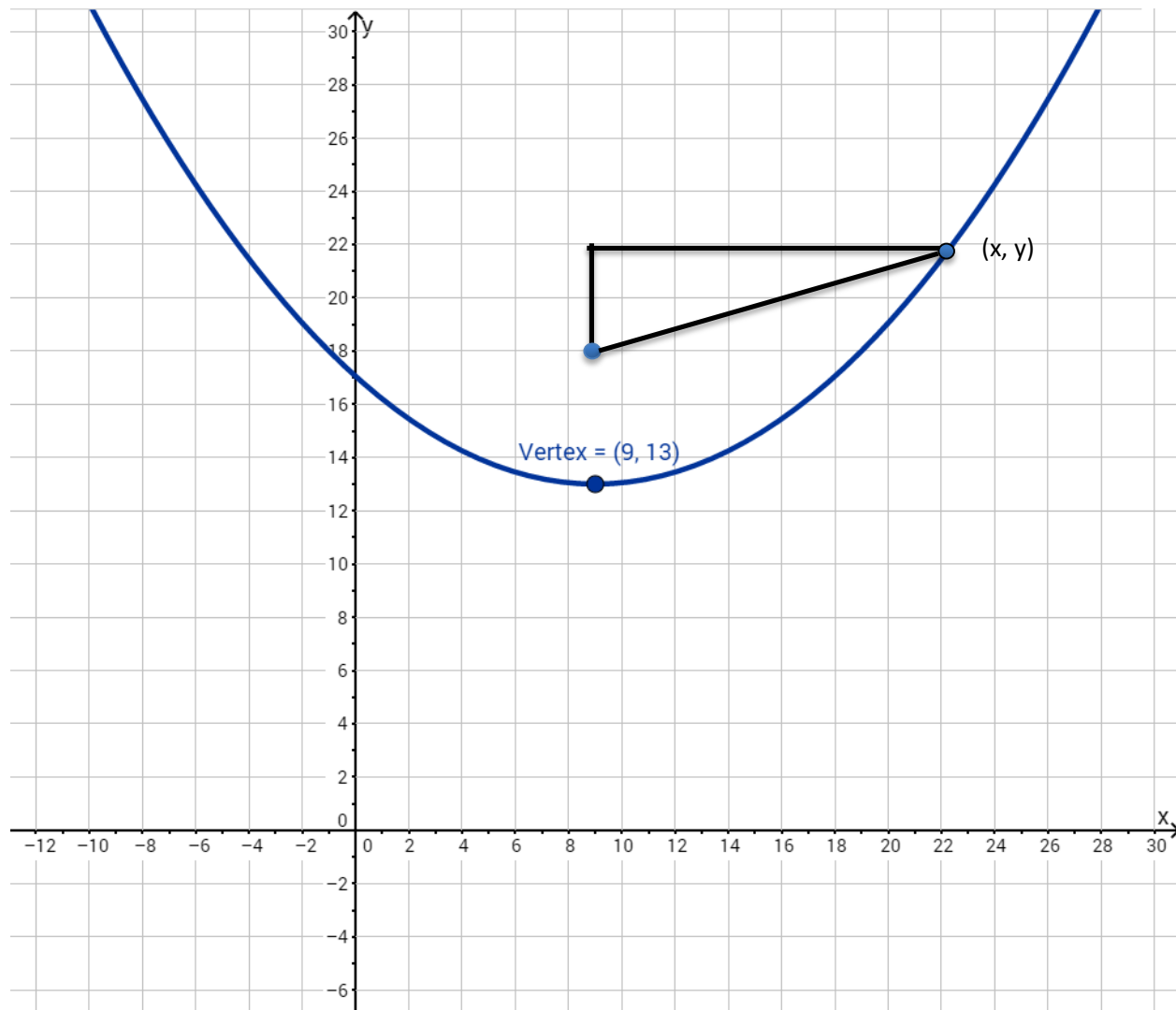
2. Determine the lengths of the sides of the right triangle. Show how you determined those lengths.

3. Derive the equation of the parabola given above. How does your equation compare with your prediction for the equation of this parabola?