

Quadratic Functions

Problem

As the distance between the focus and the directrix of the graph of a quadratic function increases,

- (a) the distance between the vertex of the parabola and its focus decreases.
- (b) the parabola becomes wider.
- (c) the parabola becomes narrower.
- (d) the parabola is reflected across the tangent line at the vertex.

Answer: (b)the parabola becomes wider.