

Constructing a Parabola: Worksheet

1. Construct a parabola (using Ibn Sinān's method) with vertex $(5, 2)$, directrix $x = -2$, and axis $y = 5$.

2. Construct a parabola (using Ibn Sinān's method) with vertex $(0, 3)$, directrix $y = -3$, and axis parallel to the y -axis.

3. & 4. Give the equations for the following parabolas. Identify their vertices, parameters, directrices, and axes.

