Page 704, §11.2. Try these problems, then check your answers in the back of the book: A-131.

*Graph the parabola. On the graph, mark and give the coordinates for focus and vertex. Draw the directrix with a dotted line.*

First locate the focus and vertex and draw the directrix. Then mark the two “focal-width points” where the line through the focus which is parallel to the directrix intersects the circle around the focus which touches the directrix.

1. \( x^2 = 4y \)

3. \( y^2 = -8x \)

13. \( y^2 - 6y - 4x + 17 = 0 \)

15. \( x^2 - 8x - y + 18 = 0 \)