

Sketch the graph using the given information. Find the standard form of the equation of the parabola using the information given.

1) Focus: $(-1, 0)$; Directrix: $x = 1$ 1) _____

2) Focus: $(0, -4)$; Directrix: $y = 4$ 2) _____

3) Vertex: $(2, -5)$; Focus: $(2, -7)$ 3) _____

4) Vertex: $(6, -4)$; Focus: $(3, -4)$ 4) _____

5) Focus: $(0, -2)$; Directrix: $x = 6$ 5) _____

6) Focus: $(-4, 5)$; Directrix: $y = -1$ 6) _____

Answer Key

Testname: PARABOLA WS4

1) $y^2 = -4x$

2) $x^2 = -16y$

3) $(x - 2)^2 = -8(y + 5)$

4) $(y + 4)^2 = -12(x - 6)$

5) $(y + 2)^2 = -12(x - 3)$

6) $(x + 4)^2 = 12(y - 2)$