

For the following exercises, graph the parabola, labeling the focus and the directrix.

31.  $x = \frac{1}{8}y^2$

32.  $y = 36x^2$

33.  $y = \frac{1}{36}x^2$

34.  $y = -9x^2$

35.  $(y - 2)^2 = -\frac{4}{3}(x + 2)$

36.  $-5(x + 5)^2 = 4(y + 5)$

**37.**  $-6(y + 5)^2 = 4(x - 4)$

**38.**  $y^2 - 6y - 8x + 1 = 0$

**39.**  $x^2 + 8x + 4y + 20 = 0$

**40.**  $3x^2 + 30x - 4y + 95 = 0$

**41.**  $y^2 - 8x + 10y + 9 = 0$

**42.**  $x^2 + 4x + 2y + 2 = 0$