

12.1: (Parabolas)

The equation of the directrix of the parabola with vertex $(1, -2)$ that has a vertical axis and passes through the point $(5, 0)$, is

A) $y = -4$

B) $y = -2$

C) $y = -1$

D) $x = -1$

E) $x = 3$

The equation of a Parabola.

The equation of the directrix of the parabola $2y^2 - 8y - 8x = 0$, is

A) $x = -2$

B) $x = 0$

C) $x = -1$

D) $y = 1$

E) $y = 3$

The equation of a Parabola.

The focus of the parabola $y^2 + 4y + 16x - 12 = 0$, is

A) $(-3, -2)$

B) $(-2, -5)$

C) $(-2, -3)$

D) $(1, -2)$

E) $(-5, -2)$

The equation of a Parabola.

A parabola has its focus at $(2,5)$. Its directrix is vertical and passes through $(-4,3)$. Its equation is

A) $y^2 - 10y - 12x + 13 = 0$

B) $(x-2)^2 = 4(y-4)$

C) $y^2 - 10y + 12x + 37 = 0$

D) $x^2 - 4x + 4y - 12 = 0$

E) $y^2 - 12y - 10x - 37 = 0$

The equation of a Parabola.

The equation in the standard form of the parabola that has vertex $(1,-1)$ axis of symmetry parallel to x-axis and passes through the origin is equal to

a) $(y+1)^2 = -(x-1)$ c) $(y+1)^2 = -4(x-1)$

b) $(y+1)^2 = (x-1)$ d) $(x-1)^2 = -(y-1)$

e) $(x-1)^2 = -4(y-1)$

The equation of a Parabola.

A parabola has equation $3x^2 + 2mx + 8y = -24$ its vertex is $(3, k)$. Then the value of k is

- A) $\frac{3}{8}$
- B) 3
- C) -9
- D) 24
- E) 1

The equation of a Parabola.

If the equation of the directrix of the parabola $(3x + 6)^2 = 18y - 36$ is $y = m$ then $m =$

- A) $\frac{3}{2}$
- B) $-\frac{3}{2}$
- C) $-\frac{1}{2}$
- D) $\frac{5}{2}$
- E) 2

The equation of a Parabola.

The equation of the parabola with focus at $(-3, 2)$ and vertex at $(-3, -1)$ is

- A) $x^2 - 12y + 6x - 3 = 0$
- B) $y^2 - 12x + 6y - 3 = 0$
- C) $x^2 + 12y - 6x + 3 = 0$
- D) $y^2 + 12x + 6y - 3 = 0$
- E) $x^2 + 12y + 6y + 3 = 0$

The equation of a Parabola.

The focus of the parabola given by the equation $2(2y - 4)^2 = 64(x - 1)$ is equal to

- A) (3,2)
- B) (3,1)
- C) (2,3)
- D) (4,1)
- E) (1,4)

The equation
of a Parabola.