#04 SA Parabola

Total points 5/5

1/1

The equation of the parabola with vertex at the origin, the axis along x-axis and passing through the point (2,3) is

$y^2 = 9x$

Option 1

$2y^2 = 9x$

Option 2

$2x^2 = 9y$

Option 3

$x^2 = 9y$

Option 4

1/1

The equation of the parabola with vertex at the origin, axis the y-axis and passing through the point (2,-3) is

$3x^2 = -4y$

Option 1

$x^2 = -4y$

Option 2

$y^2 = -4x$

Option 3

$3y^2 = -4x$

Option 4

1/1

The equation of the parabola with vertex at the origin and directrix $y = 2$ is

$x^2 = -8y$

Option 1

$y^2 = -8x$

Option 2

$y^2 = 8x$

Option 3

$x^2 = 8y$

Option 4

1/1

The directrix of the parabola $4x^2 + y = 0$ is

$y = \frac{1}{16}$

Option 1

$y = -\frac{1}{16}$

Option 2

$x = -\frac{1}{16}$

Option 3

$x = \frac{1}{16}$

Option 4

1/1

The equation of the parabola, if the focus is at (0,-3) and the vertex is at (0,0), is

$x^2 = -12y$

Option 1

$x^2 = 12y$

Option 2

$y^2 = 12x$

Option 3

$y^2 = -12x$

Option 4