

All points given by the parametric equations

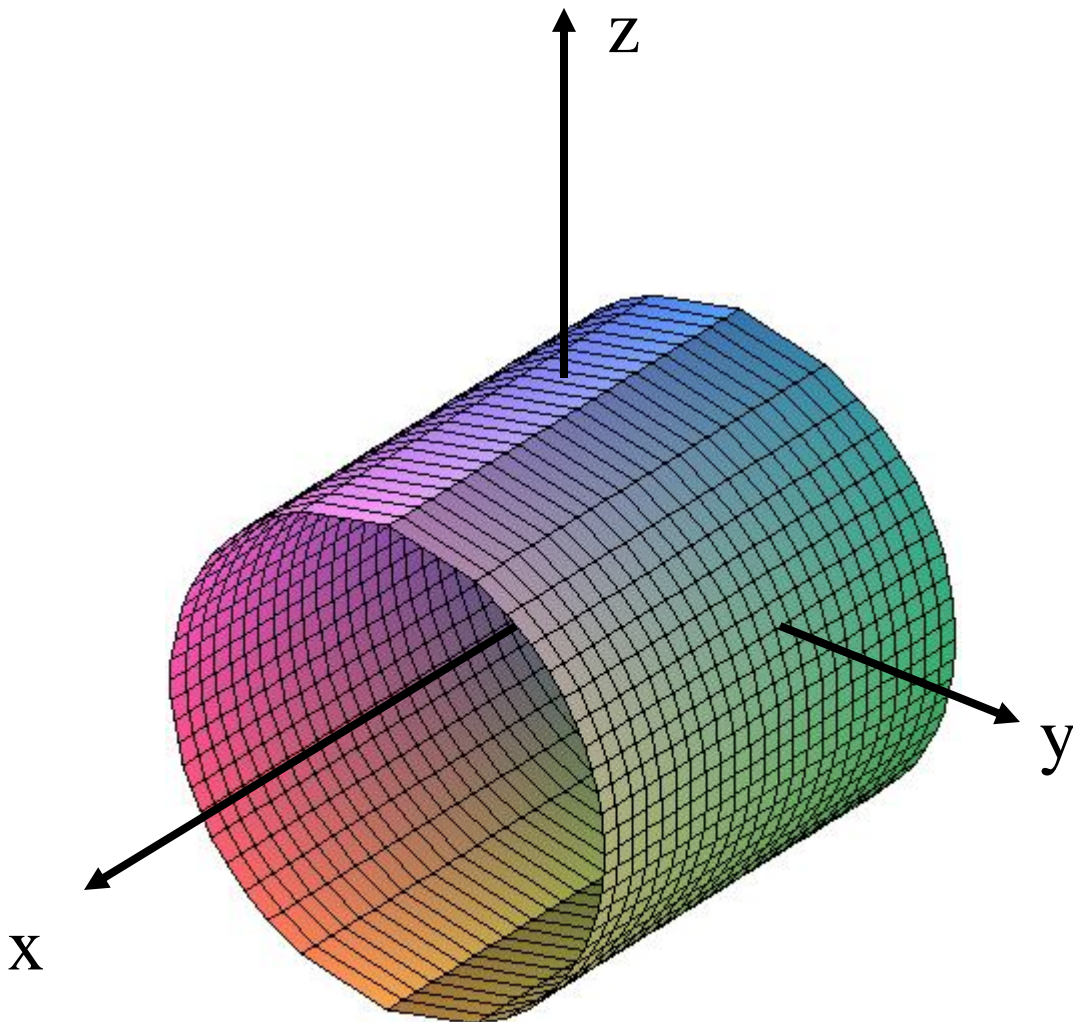
$$\mathbf{x} = t$$

$$\mathbf{y} = \cos(2t)$$

$$\mathbf{z} = \sin(2t)$$

are on the cylinder:

$$\mathbf{y}^2 + \mathbf{z}^2 = 1$$

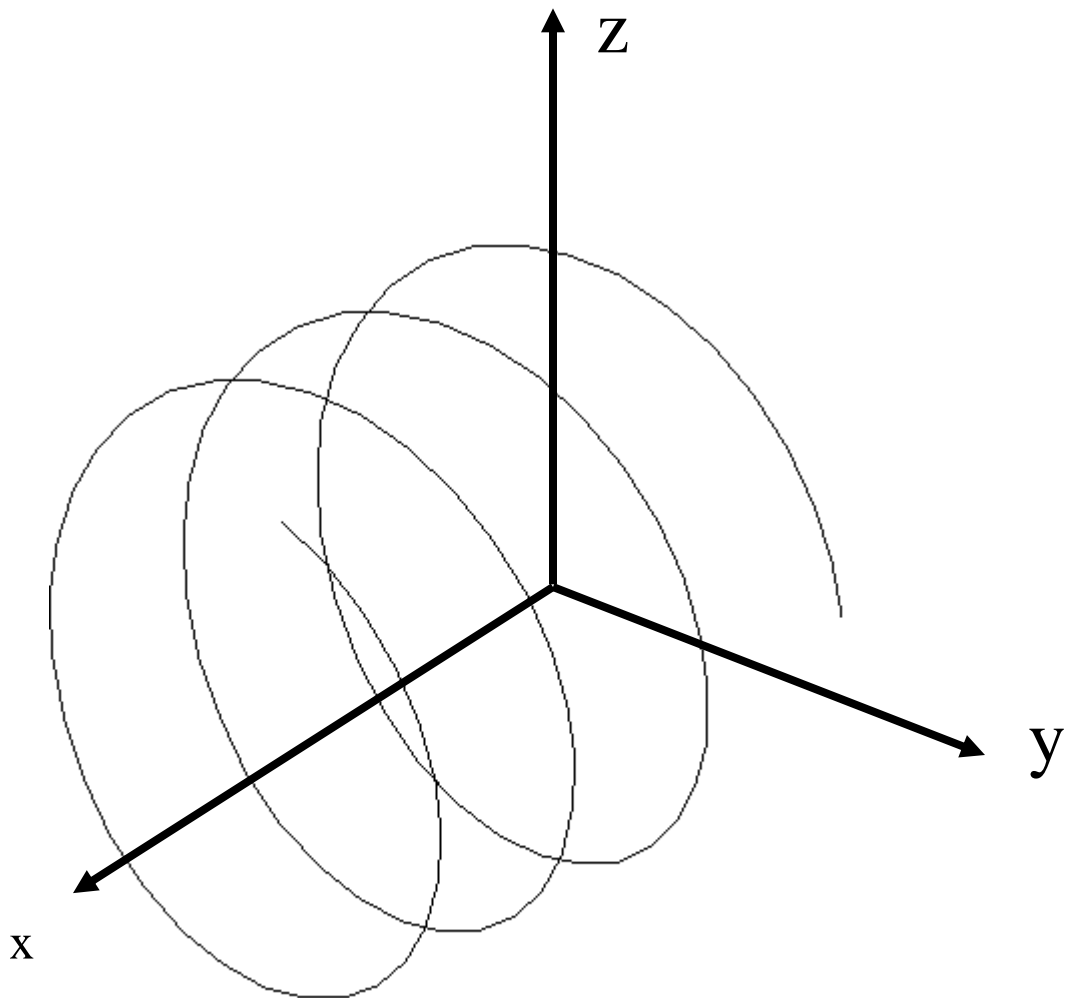


The graph of the space curve for

$$\mathbf{x} = t$$

$$\mathbf{y} = \cos(2t)$$

$$\mathbf{z} = \sin(2t)$$



All points given by the parametric equations

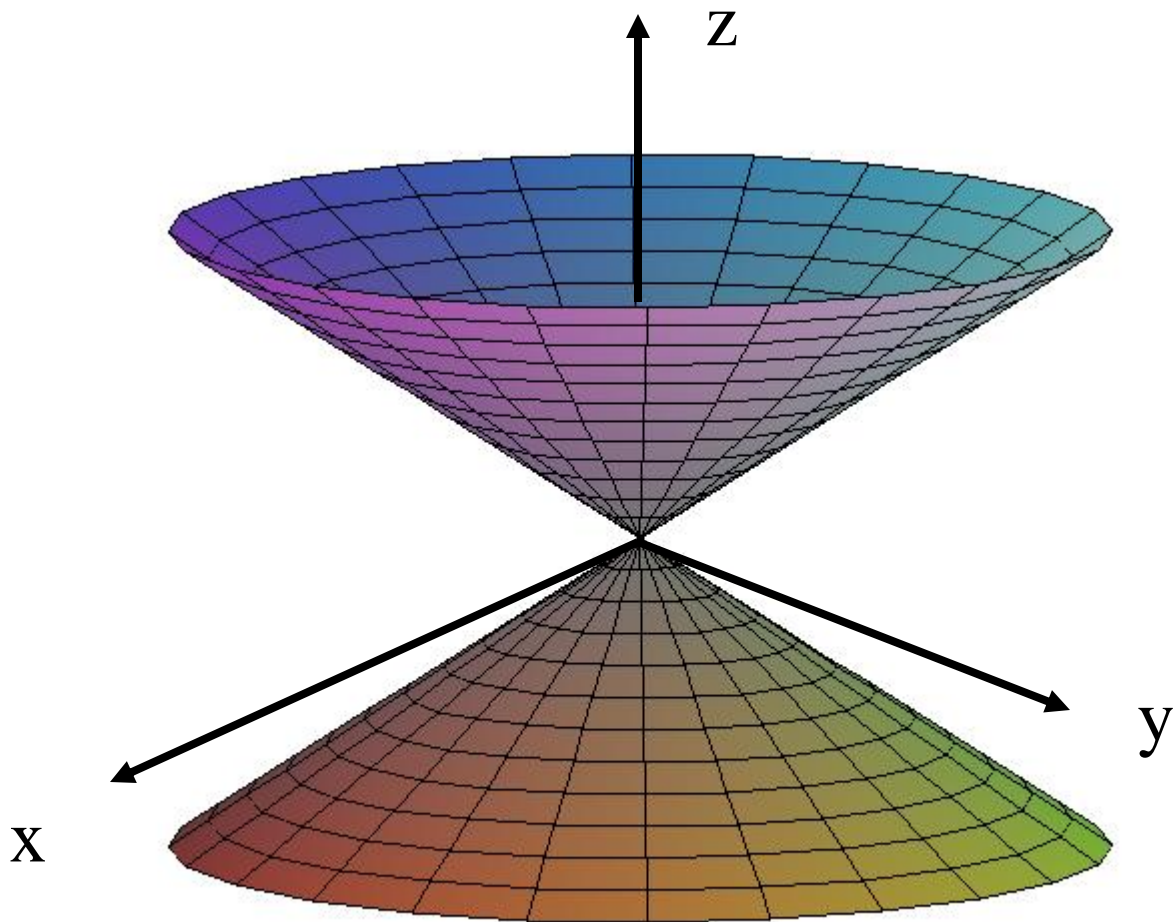
$$\mathbf{x} = t\cos(t)$$

$$\mathbf{y} = t\sin(t)$$

$$\mathbf{z} = t$$

are on the cone:

$$\mathbf{z}^2 = \mathbf{x}^2 + \mathbf{y}^2$$



The graph of the space curve for

$$\mathbf{x} = t\cos(t)$$

$$\mathbf{y} = t\sin(t)$$

$$\mathbf{z} = t$$

