PARAMETRIC GRAPHS IN THREE DIMENSIONS - ANSWERS

Identify by letter the graph that corresponds to each of the following functions.

1. $x = \cos t$, $y = 0$, $z = \sin t$, $0 \le t \le 2\pi$ — d

2. $x = \cos t$, $y = \sin t$, $z = \frac{t}{5}$, $0 \le t \le 10\pi$ — a

3. $x = \cos 4t$, $y = \sin 8t$, $z = \cos 12t \cdot \sin t$, $0 \le t \le 2\pi$ — f

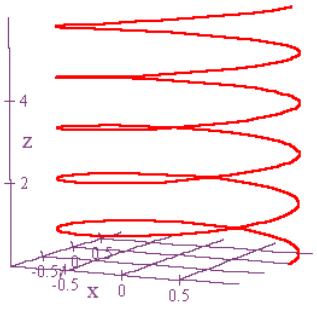
4. $x = \cos t$, $y = \sin t$, $z = \cos 3t$, $0 \le t \le 2\pi$ — b

5. $x = 1 + 3t$, $y = 2 + 2t$, $z = 3 - 4t$, $0 \le t \le 1$ — c

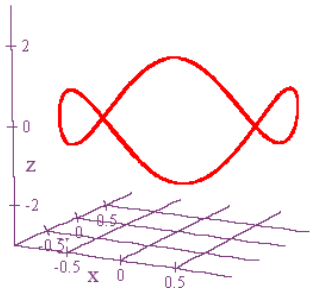
6. $x = 2\cos t$, $y = 0$, $z = \sin t$, $0 \le t \le 2\pi$ — e

PARAMETRIC GRAPHS IN THREE DIMENSIONS - ANSWERS

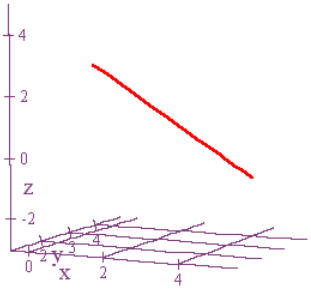
a.



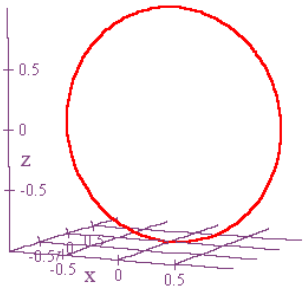
b.



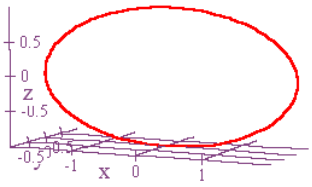
c.



d.



e.



f.