

PARAMETRIC GRAPHS IN THREE DIMENSIONS - ANSWERS

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

$$\begin{array}{l}
 x = \cos t \\
 y = 0 \\
 z = \sin t \\
 0 \leq t \leq 2\pi
 \end{array}
 \quad \underline{\text{d}}$$

$$\begin{array}{l}
 x = \cos t \\
 y = \sin t \\
 z = \frac{t}{5} \\
 0 \leq t \leq 10\pi
 \end{array}
 \quad \underline{\text{a}}$$

$$\begin{array}{l}
 x = \cos 4t \\
 y = \sin 8t \\
 z = \cos 12t \cdot \sin t \\
 0 \leq t \leq 2\pi
 \end{array}
 \quad \underline{\text{f}}$$

$$\begin{array}{l}
 x = \cos t \\
 y = \sin t \\
 z = \cos 3t \\
 0 \leq t \leq 2\pi
 \end{array}
 \quad \underline{\text{b}}$$

$$\begin{array}{l}
 x = 1 + 3t \\
 y = 2 + 2t \\
 z = 3 - 4t \\
 0 \leq t \leq 1
 \end{array}
 \quad \underline{\text{c}}$$

$$\begin{array}{l}
 x = 2 \cos t \\
 y = 0 \\
 z = \sin t \\
 0 \leq t \leq 2\pi
 \end{array}
 \quad \underline{\text{e}}$$

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