

PARAMETRIC GRAPHS IN THREE DIMENSIONS - ANSWERS

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

$$\begin{aligned}
 &x = \cos t \\
 1. \quad &y = 0 \\
 &z = \sin t \\
 &0 \leq t \leq 2\pi
 \end{aligned}
 \quad \underline{\text{d}}$$

$$\begin{aligned}
 &x = \cos t \\
 &y = \sin t \\
 2. \quad &z = \frac{t}{5} \\
 &0 \leq t \leq 10\pi
 \end{aligned}
 \quad \underline{\text{a}}$$

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

$$\begin{aligned}
 &x = \cos t \\
 &y = \sin t \\
 4. \quad &z = \cos 3t \\
 &0 \leq t \leq 2\pi
 \end{aligned}
 \quad \underline{\text{b}}$$

$$\begin{aligned}
 &x = 1 + 3t \\
 &y = 2 + 2t \\
 5. \quad &z = 3 - 4t \\
 &0 \leq t \leq 1
 \end{aligned}
 \quad \underline{\text{c}}$$

$$\begin{aligned}
 &x = 2 \cos t \\
 &y = 0 \\
 6. \quad &z = \sin t \\
 &0 \leq t \leq 2\pi
 \end{aligned}
 \quad \underline{\text{e}}$$

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