

PARAMETRIC GRAPHS IN THREE DIMENSIONS

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

1. $x = \cos t$
 $y = 0$
 $z = \sin t$ _____
 $0 \leq t \leq 2\pi$

2. $x = \cos t$
 $y = \sin t$
 $z = \frac{t}{5}$ _____
 $0 \leq t \leq 10\pi$

3. $x = \cos 4t$
 $y = \sin 8t$
 $z = \cos 12t \cdot \sin t$ _____
 $0 \leq t \leq 2\pi$

4. $x = \cos t$
 $y = \sin t$
 $z = \cos 3t$ _____
 $0 \leq t \leq 2\pi$

5. $x = 1 + 3t$
 $y = 2 + 2t$
 $z = 3 - 4t$ _____
 $0 \leq t \leq 1$

6. $x = 2 \cos t$
 $y = 0$
 $z = \sin t$ _____
 $0 \leq t \leq 2\pi$

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