

Parametric Equations Practice

1989 BC1

1. The asymptotes of the graph of the parametric equations $x = \frac{1}{t}$, $y = \frac{t}{t+1}$ are

- a. $x = 0$, $y = 0$ b. $x = 0$ only c. $x = -1$, $y = 0$ d. $x = -1$ only e. $x = 0$, $y = 1$

1988 BC4

2. A particle moves in the xy -plane so that at any time t its coordinates are $x = t^2 - 1$ and $y = t^3 - 2t^2$. At $t = 1$, its acceleration vector is

- a. $(0, -1)$ b. $(0, 12)$ c. $((2, -2))$ d. $(2, 0)$ e. $(2, 8)$

1988 BC2B

3. If $x = t^3 - t$ and $y = \sqrt{3t+1}$, then $\frac{dy}{dx}$ at $t = 1$ is

- a. $\frac{1}{8}$ b. $\frac{3}{8}$ c. $\frac{3}{4}$ d. $\frac{8}{3}$ e. 8

1988 BC1B

4. For any time $t \geq 0$, if the position of a particle in the xy -plane is given by $x = t^3 + 1$ and $y = \ln(2t + 3)$, then the acceleration vector is

- a. $\left(2t, \frac{2}{(2t+3)}\right)$ b. $\left(2t, \frac{-4}{(2t+3)^2}\right)$ c. $\left(2, \frac{4}{(2t+3)^2}\right)$ d. $\left(2, \frac{2}{(2t+3)^2}\right)$ e. $\left(2, \frac{-4}{(2t+3)^2}\right)$

1993 BC6

5. If $x = t^2 + 1$ and $y = t^3$, then $\frac{d^2y}{dx^2} =$

- a. $\frac{3}{4t}$ b. $\frac{3}{2t}$ c. $3t$ d. $6t$ e. $\frac{3}{2}$

1988 BC3A

6. A curve in the plane is defined parametrically by the equations $x = t^3 + t$ and $y = t^4 + 2t^2$. An equation of the line tangent to the curve at $t = 1$ is

- a. $y = 2x$ b. $y = 8x$ c. $y = 2x - 1$ d. $y = 4x - 5$ e. $y = 8x + 13$

1993 BC2D

7. The length of the curve determined by the equations $x = t^2$ and $y = t$ from $t = 0$ to $t = 4$ is

- a. $\int_0^4 \sqrt{4t+1} dt$ b. $2 \int_0^4 \sqrt{t^2+1} dt$ c. $\int_0^4 \sqrt{2t^2+1} dt$ d. $\int_0^4 \sqrt{4t^2+1} dt$ e. $2\pi \int_0^4 \sqrt{4t^2+1} dt$

1993 BC2B

8. Consider the curve in the xy -plane represented by $x = e^t$ and $y = te^{-t}$ for $t \geq 0$. The slope of the line tangent to the curve at the point where $x = 3$ is

- a. 20.086 b. 0.342 c. -0.005 d. -0.011 e. -0.033

1993 BC3B

9. If a particle moves in the xy -plane so that at time $t > 0$ its position vector is $(\ln(t^2 + 2t), 2t^2)$, then at time $t = 2$, its velocity vector is

- a. $\left(\frac{3}{4}, 8\right)$ b. $\left(\frac{3}{4}, 4\right)$ c. $\left(\frac{1}{8}, 8\right)$ d. $\left(\frac{1}{8}, 4\right)$ e. $\left(-\frac{5}{16}, 4\right)$

G Parametric Equations Master Math Mentor Packet

Guillaume Favre

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