

# 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 BC28

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 BC15

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 BC34

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 BC23

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 BC25

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 BC28

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

**Ying-Ying Zheng**



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