

Odds/Ends – 1200

■ A particle moves from left to right along the curve $y = \sqrt{x}$ in such a way that its x -coordinate moves at a steady 2 inches per second. How fast the angle of elevation θ of the line joining the particle to the origin changes when $x = 4$ inches

A) $-\frac{1^R}{40 \text{ sec}}$

B) $-\frac{1^R}{20 \text{ sec}}$

C) $-\frac{1^R}{10 \text{ sec}}$

D) $-\frac{1^R}{5 \text{ sec}}$