

A particle is moving in a straight line along the x -axis such that its displacement s meters after t seconds is given by $s(t) = -t^3 + 6t^2 + 2t$. Find the maximum velocity of the particle in the positive x -direction.

$$s(t) = -t^3 + 6t^2 + 2t \quad t \geq 0$$

$$v(t) = \frac{d}{dt} s(t)$$

$$* v(t) = (-3t^2 + 12t + 2) \text{ m/s}$$


$$a(t) = \frac{d}{dt} v(t)$$

$$a(t) = -6t + 12$$

$$0 = -6t + 12$$

$$6t = 12$$

$$t = \underline{2 \text{ s}}$$

$$\begin{aligned} v(2) &= -3(2)^2 + 12(2) + 2 \\ &= -12 + 24 + 2 \\ &= 14 \end{aligned}$$

$$\boxed{14 \text{ m/s}} \quad \checkmark$$

$$v(1) = 11 \text{ m/s}$$

$$v(3) = 11 \text{ m/s}$$

Maximum Velocity

L Reisser



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