

1) Describe the motion of a particle whose position is given by the function $s(t) = t^2 - 5t - 6$.

Sketch its motion on a position axis as well.

2) Describe and sketch the motion of a particle whose position is given by the function $s(t) = 2t^3 - 12t^2 + 4t + 9$

3) If $s(t) = \frac{t}{t^2 + 5}$ is the position function of a moving particle for positive values

- a. What instant of time will the particle start to reverse its direction?
- b. What is its position at that time?