

$$\begin{aligned}
 & \boxed{2/2} \quad \left. \begin{aligned} s &= 2t^3 - 40t^2 + 200t - 50 \\ v &= \frac{ds}{dt} = 6t^2 - 80t + 200 \\ a &= \frac{dv}{dt} = 12t - 80 \end{aligned} \right\} \text{See plots} \\
 & v = 0: 6t^2 - 80t + 200 = 0, \quad t = \frac{80 \pm \sqrt{80^2 - 4(6)(200)}}{-2(6)} \\
 & \quad \quad \quad t = 3.33 \text{ s}, 10 \text{ s}
 \end{aligned}$$

