

$$\left. \begin{array}{l} 2/1 \\ v = 25t^2 - 80t - 200 \\ a = \frac{dv}{dt} = 50t - 80 \end{array} \right\} \text{See plots}$$

$$a = 0 : 50t - 80 = 0, \quad t = 1.6 \text{ sec}$$

$$\text{At } t = 1.6 \text{ sec, } v = 25(1.6)^2 - 80(1.6) - 200 = \underline{\underline{-264 \frac{\text{ft}}{\text{sec}}}}$$

