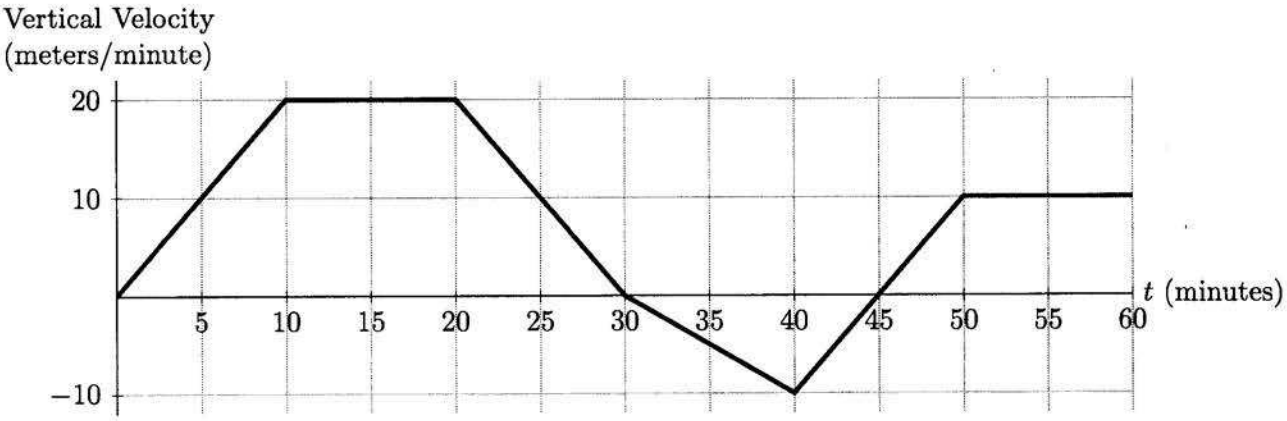
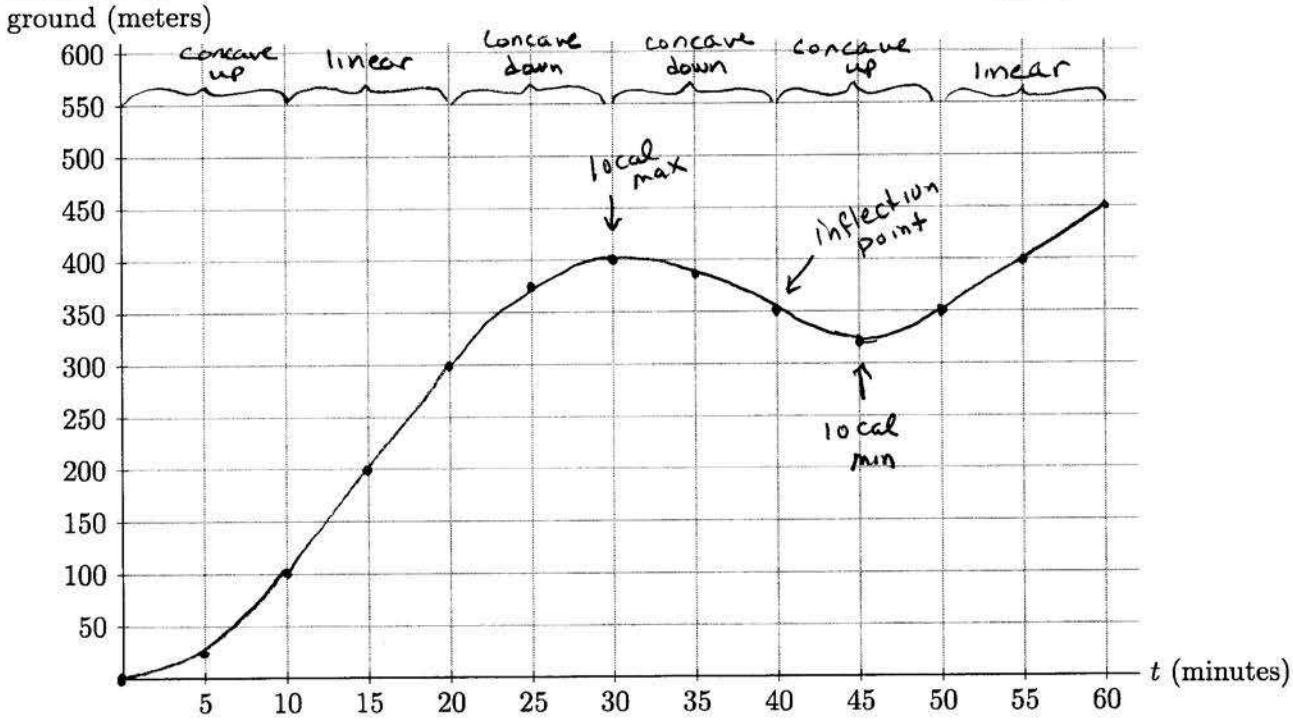
2. [12 points] Erna is a rock climber who is climbing a rock formation. Due to the shape of the formation, the rate at which Erna ascends varies and is given by the graph below.



a. [10 points] Erna starts climbing from the ground at $t = 0$, and she reaches the top at $t = 60$, where t is measured in minutes. Use the axes below to carefully sketch a graph of her height above the ground for $0 \leq t \leq 60$.

- Clearly indicate the coordinates of the points on your graph at $t = 0$, 10, 20, 30, 40, 50, and 60.
- Be sure that local extrema and concavity are clear.

1 Box = (5 min)(10 m/min)
= 50 m



b. [2 points] How tall was the rock formation that Erna climbed?

Answer: Height of Rock Formation = 450 meters