Question 2:

You are in a van that steadily accelerates from 20 m/s to 35 m/s over the course of 10 seconds. How far did you travel in meters over the course of those ten seconds.



$$V(0) = 20 \, \text{m/s} \qquad V(10) = 35 \, \text{m/s}$$

$$V(10) = 1.5 + 20$$

$$V(10) = 35 \, \text{m/s}$$

$$V(10) = 35 \, \text{m/s}$$