Question 1:

You are in a van that steadily accelerates from $20 \mathrm{~m} / \mathrm{s}$ to $35 \mathrm{~m} / \mathrm{s}$ over the course of 10 seconds. What is the rate of acceleration.

$10 s$


$$
V(0)=20 \mathrm{~m} / \mathrm{s}
$$



$$
V(10)=35 \mathrm{~m} / \mathrm{s}
$$

constant a

$$
V(A)=1.5 t+20
$$

$$
a(t)=\frac{d V_{(t)}}{d t}=1.5 \mathrm{~m} / \mathrm{s}^{2}
$$

