A car starts from rest and accelerates to a speed of 27m/s in 1. 12 seconds, what is the car's acceleration?

$$V_f = 27$$

b. What equation do you use?

$$1$$
 $V_4 = V_1 + \alpha + C$

Fill out the ViVfdat table, what is the unused

c. Find the acceleration

$$27 = \alpha(12)$$

 $\alpha = \frac{27}{12} = 2.25 \text{ m/s}^2$

How far did the car travel in the 12 seconds above?

$$d = \frac{x_1 + v_4}{2} + d$$

$$d = \frac{27}{2}(12) = 162m$$

Later on, the car slows down to 20 m/s over a distance of e. 658m, what is the acceleration of the car?

$$V_i = 27$$

$$d = 658$$

$$a = -\frac{329}{1316} = -0.25 \text{ m/s}^2$$