

$$V_{\text{AVG}} = \frac{\text{TOTAL DISTANCE}}{\text{TOTAL TIME}} = \frac{\Delta d_1 + \Delta d_2}{16.5 \text{ HRS}}$$

$$= \frac{30 \text{ M} + 112.5 \text{ M}}{16.5 \text{ HRS}} = 8.64 \text{ MPH}$$

$$\Delta d_1 = V_1 \Delta t_1$$

$$(2 \text{ MILES}) (15 \text{ HRS})$$

$$\Delta d_2 = V_2 \Delta t_2 = \left( \frac{75 \text{ Miles}}{\text{HR}} \right) (1.5 \text{ HR}) = 112.5 \text{ M}$$

$$\Delta d_1 = 30 \text{ M}$$

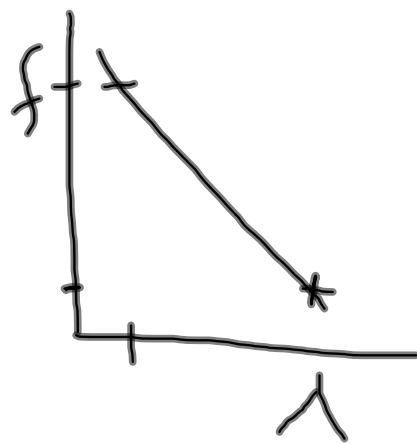
$$V_{\text{AVG}} = \text{(SPEED)} = \frac{\text{TOTAL DISTANCE}}{\text{TOTAL TIME}} = \frac{\Delta d_1 + \Delta d_2}{16.5 \text{ hrs}}$$

30 miles
112.5 miles

$$= 8.63 \text{ MPH}$$

$$\Delta d_1 = v_1 \Delta t_1$$

$$\Delta d_2 = v_2 \Delta t_2$$



$$c = f\lambda$$