

Distance from the center of the circle to the road

$$y = \frac{18}{25}x = y = 0.72x$$

$$\text{Gradient} = \frac{\Delta y}{\Delta x} = \frac{18}{25}$$

Point (0,0) center

$$\frac{18 - 0}{25 - 0} = \frac{18}{25}$$

$$d = \sqrt{18^2 + 25^2}$$

$$= 30.8058 \text{ miles}$$

$$\text{time} = r^2/k$$

$$= \frac{949}{14000/60}$$

$$= 4.067 \text{ minutes}$$