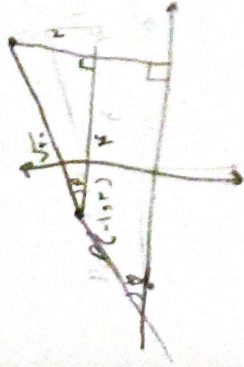


$$\sin 12^\circ = \frac{4}{5} \times \frac{3}{4} \times \frac{\sqrt{14}}{5} = \frac{3\sqrt{14}}{25}$$

$$\frac{1}{5} \times \frac{3}{4} \times \frac{4}{5} \sin 12^\circ \rightarrow \frac{3}{25} \times \frac{1}{4} \times \frac{\sqrt{14}}{5} = \frac{3\sqrt{14}}{500}$$

Q(4,1)



$$y = mx + b \rightarrow 1 = 4m + b$$

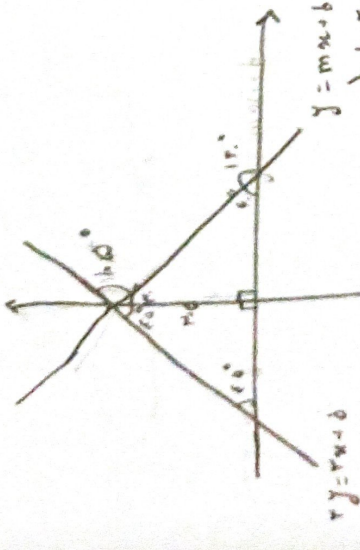
$$3 = 14m + b$$

$$-3 = -14\sqrt{14} \times \cos \theta$$

$$\cos \theta = \frac{3}{14\sqrt{14}}$$

$$\cos \theta = \frac{3}{14\sqrt{14}} \rightarrow \cos \theta = \frac{3}{14\sqrt{14}}$$

$$\frac{3\sqrt{14}}{196}$$



$$y = mx + b$$

$$b = 1, 0$$

$$\tan 12^\circ = \frac{1}{4}$$

$$mb = \frac{1}{4} \times (-\sqrt{14}) = -\frac{\sqrt{14}}{4}$$

$$\cos(\theta + \phi) = \cos \theta \cos \phi - \sin \theta \sin \phi = \left(\frac{4}{5}\right) \left(\frac{3}{5}\right) - \left(\frac{3}{5}\right) \left(\frac{4}{5}\right) = \frac{12}{25} - \frac{12}{25} = 0$$

$$\cos 15^\circ = \frac{4}{5} \times \frac{3}{5} = \frac{12}{25}$$

$$\sin 15^\circ = \frac{3}{5} \times \frac{4}{5} = \frac{12}{25}$$

$$\cos \theta = \frac{3}{14\sqrt{14}}, \sin \theta = \frac{1}{14\sqrt{14}}$$

$$\cos 15^\circ = \frac{12}{25}$$

$$\sin 15^\circ = \frac{12}{25}$$