



$$\frac{d}{dt} (b\omega \sin \theta, b\omega \cos \theta)$$

$$\frac{1}{2} \quad \frac{\sqrt{3}}{2}$$

$$\omega = \frac{2}{\sqrt{3}}$$

$$V_x = 3 \text{ m/s}$$

$$V_y = V_x \times \tan \theta$$

$$= \sqrt{3} \text{ m/s}$$

$$V = \sqrt{9+3} = \sqrt{12}$$

$$= 3.464 \text{ m/s}$$

$$= 0.3464 \text{ m/s}$$

$$1 = \frac{d\omega}{dt} \times \frac{\sqrt{3}}{2}$$

$$- \frac{d^2}{3} \times \frac{1}{2}$$

$$\frac{5}{3} \times \frac{2}{\sqrt{3}} = \frac{d\omega}{dt}$$

$$= \frac{10}{3\sqrt{3}}$$

$$V = r \omega$$

$$0.3464$$

$$a = r \omega^2$$

$$= 0.3 \times \frac{4}{2}$$

$$1.1946 = 0.4$$