a)
$$w = \frac{V}{R} = \frac{25}{4} = 6.25 \text{ m/s}$$

b)
$$\alpha = \frac{dw}{dt} = \int_{t_0}^{t} x dt = \int_{u_0}^{w(t)} dw$$

$$W(t) = \frac{d\theta}{dt} \otimes \int_{t_0}^{t} w(t) dt = \int_{t_0}^{\theta(t)} d\theta \Leftrightarrow \int_{t_0}^{t} (6,25 + x)t = \theta(t) \cdot \theta_0$$

$$N = 6,25(0,3) + \frac{\alpha}{2}(0,3)^2 \Leftrightarrow \alpha = 28,1 \text{ rad/s}^2$$

$$A) \qquad \overrightarrow{5} \qquad B) \qquad \overrightarrow{5} \qquad C)$$

B)
$$nn \int_{B}^{\infty} -\overline{h} = 0$$

$$yy \left(N - P = 0 \right)$$

$$T_{A} = Tsm(\theta) = T_{B} = Tcos(\theta)$$

$$Tcos(\theta) - \mu R_{B}g = 0 \qquad | Tcos(\theta) = \mu R_{B}g$$

$$Tsm(\theta) - R_{A}g = 0 \qquad | Tsm(\theta) = R_{A}g$$

$$Tcos(\theta) = 0.25R_{B}g$$

$$Tsm(\theta) = R_{A}g \qquad tg(\theta) = \frac{\pi R_{B}g}{R_{B}g}$$

$$tg(8) = \frac{M_{A}q}{N_{B}q_{0,25}}$$

$$= \frac{M_{A}}{N_{B}q_{0,25}}$$

$$= \frac{M_{A}}{N_{B}q_{0,25}}$$

$$= \frac{q_{A}q_{0,25}}{N_{B}q_{0,25}}$$

$$= \frac{q_{A}q_{0,25}}{N_{B}q_{0,25}}$$

b)
$$nn$$
 $yy \mid T - P = -ma$

B)
$$\times \times \int T - E_{\alpha} - Psen(\theta) = ma$$

 $YY \mid N - Pcos(\theta) = 0$

$$|A| = ma$$

$$|T = (\mu 9,8 + 4,9 + 3) | 13,6 = \mu 9,8 + 7,9$$

$$|T = 2(9,8-3) | T = 13,6$$