$$M_B = (6-2) \cdot r_B = 4 \times \frac{75}{75} = \frac{200}{600} N_m$$

.. In the region A-B, T is constant and

i equal to
$$\frac{300 \text{ N-m}}{600}$$

$$\frac{T}{J} = \frac{60}{L}$$

$$= \frac{540}{11} \times 10^{-5} \text{ rad.}$$

$$= \frac{54}{11} \times 10^{-4} \text{ rad.}$$

b)
$$\frac{T}{J} = \frac{GO}{L} = \frac{2T}{TR4}$$

If we apply a constant twisting moment T over a circular shaft with radius R and length L, and measure the angle of twent length L and measure the angle of twent

2.
$$A = D = D$$
 $A = D = D$
 $A = D$

C)
$$\frac{1}{1-2-2}$$
 $\leftarrow F_c$ F_c An additional F_c will halt free expansion of right rod.

Shight = $\alpha \triangle T_2 \cdot L - F_c \cdot L$

AE

$$\int_0^1 \frac{P(x)}{AE} dx = \int_0^1 \frac{P(L-x) - F_c}{AE} dx$$

$$= \int_0^1 \frac{P(L$$

3.
$$\frac{1}{dx} = \frac{1}{dx} = \frac{1}{$$