

(a) 
$$M_1 = d_1F_1 \rightarrow d_1 = 400 mm$$
,  $F_1 = 105N$   
 $M_1 = (400 mm)(105N) = 42000N mm = 42Nm$ 

(c) 
$$M + o \log = M_1 + M_2$$

$$-9 N m = 42 N m - (1.05) n) (5 in A) (6 o N)$$

$$-5 1 N m = -6.3 N m \cdot (5 in A)$$

$$5 in 0 = 0.80052$$