a)
$$P_{ara} = (1/8)(1) = 1/8 \text{ in}^2$$

a) $P_{ara} = 0^{\circ}$

$$P_{be} = \frac{F_{be}}{A}$$

$$O_{be} = -\frac{80}{(1/8)} = (-640 \text{ lb/in}^2)$$

b) $P_{ara} = 0^{\circ}$

$$P_{be} = \frac{16}{12}(60)$$

$$F_{be} = \frac{16}{12}(60)$$

$$F_{be} = \frac{16}{12}(60)$$

$$F_{be} = \frac{8}{12}(60) = 40 \text{ lb}$$

$$F_{be} = \frac{8}{12}(60) = 40 \text{ lb}$$

$$F_{be} = -\frac{40}{(1/8)} = -320 \text{ lb/in}^2$$