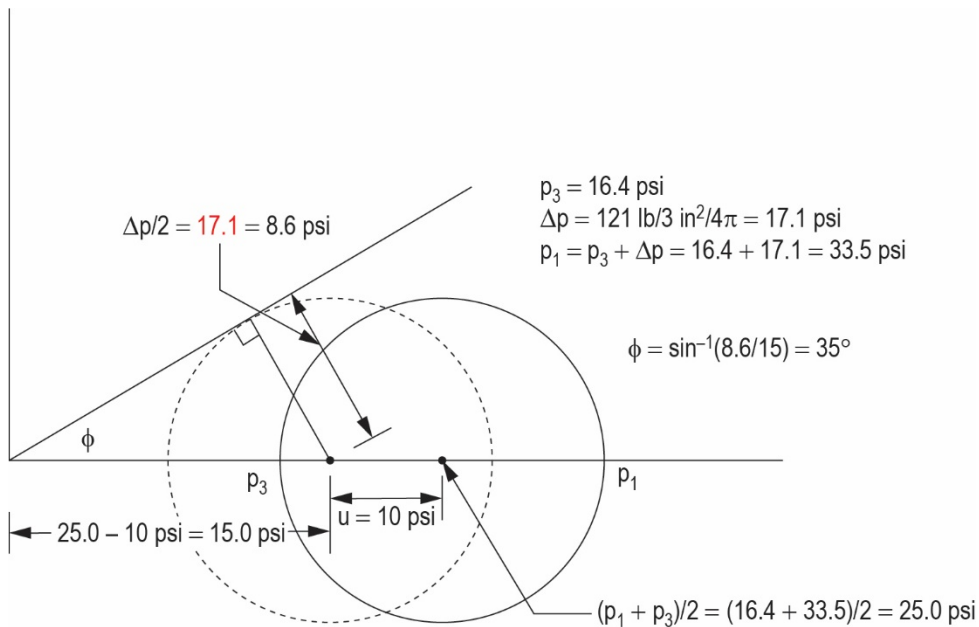


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Revisions are shown in red.

Solution 47, p. 82:



Solution 66, p. 88:

$$K_a = \frac{\cos^2(\phi - \theta)}{\cos^2 \theta \cos(\theta + \delta) \left[1 + \sqrt{\frac{\sin(\phi + \delta) \sin(\phi - \beta)}{\cos(\theta + \delta) \cos(\theta - \beta)}} \right]^2}$$

$$= 0.371$$

Also refer to earth pressure charts.

$$P_a = \frac{\gamma H^2}{2} K_a$$

$$= \frac{(120 \text{ lb/ft}^3)(8 \text{ ft})^2}{2} (0.371)$$

$$= 1,425 \text{ lb/ft}$$

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Solution 72, p. 90:

Reference: *NCEES PE Civil Reference Handbook*.

Solution 1:

$$e_L = 3 - 1 = 2 \qquad e_B = 2 - 1.5 = 0.5$$

$$e_L/L = 2/6 = 0.33 \qquad e_B/B = 0.5/4 = 0.125$$

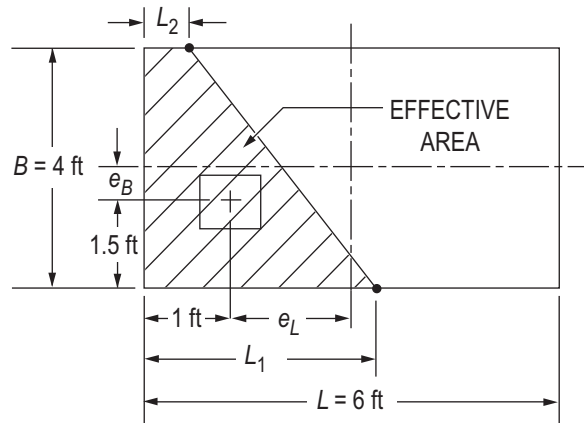
Case II, Figure 3.16

$$L_1/L \approx 0.5 \qquad L_2/L = 0.1$$

$$L_1/6 = 0.5 \qquad L_2/6 = 0.1$$

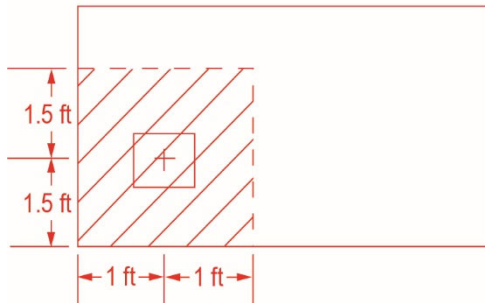
$$L_1 = 3.0 \qquad L_2 = 0.6$$

$$\begin{aligned} A' &= 1/2(L_1 + L_2)B \\ &= 1/2(3.0 + 0.6)4 \\ &= 7.2 \text{ ft}^2 \end{aligned}$$



Alternate solution:

$$\begin{aligned} A &= 2(1.5) \times 2(1.0) \\ &= 6.0 \text{ ft}^2 \end{aligned}$$



THE CORRECT ANSWER IS: B