

MEEG 3013 Test IIIc

Answers:

1. (a) $\mathbf{A} = \frac{P}{4} \downarrow$, $\mathbf{B} = \frac{7P}{8} \uparrow$, $\mathbf{D} = \frac{3P}{8} \uparrow$

(b) $\theta_c = -\frac{PL^2}{48EI}$, $y_c = -\frac{5PL^3}{48EI}$

2. (a) $\mathbf{A} = \frac{P}{4} \downarrow$, $\mathbf{B} = \frac{7P}{8} \uparrow$, $\mathbf{D} = \frac{3P}{8} \uparrow$

(b) $\theta_c = -\frac{PL^2}{48EI}$, $y_c = -\frac{5PL^3}{48EI}$

3. A. (c)
B. (d)
C. (e)
D. (d)

4. (See text.)