2.36-a

Answers exact. No errors
Determine the reactions of supports

2.36

Portion ED

\[ F_x = 40 \text{ ft} \]

\[ \sum M_0 = F_y(80) + 80(10) = 0 \]

\[ 80F_y - 40Cy = 800 \]

\[ \sum F_x = 0 \rightarrow F_x = 0 \]

\[ Cy = 45 \text{ ksi} \]

\[ Dy = 47.5 \text{ ksi} \]

\[ By = 95 \text{ ksi} \]

\[ Ax = 0 \text{ ksi} \]

\[ Ay = 17.5 \text{ ksi} \]

\[ \sum F_y = -Ay + 95 - 37.5 = 0 \rightarrow Ay = 125 \]

\[ \sum F_x = 0 \]

Portion EE

Portion AE