

For a point force on a beam, the location to place a point force for:

 $\frac{\theta_{\text{far}}}{\theta_{\text{near}}} = \frac{1}{2 + 2k}$

- a) Maximum positive moment is approximately at 0.43L from the flexible support (0.366L<xF<0.5L)
- a) Maximum negative moment is approximately at 0.38L from the stiffer support (0.333<xF<0.423L)