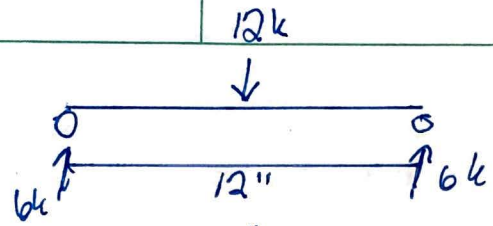
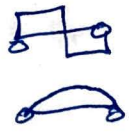
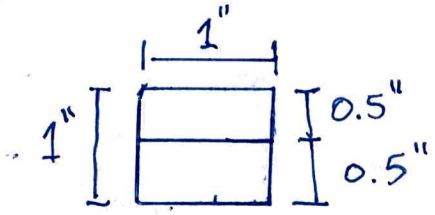


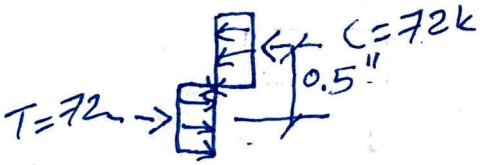




$$q = \frac{VQ}{I} = \frac{6k(0.5in^2)(0.25)}{\frac{1in^4}{12}}$$

$$q = 9 \text{ kips/in}$$

PLASTIC

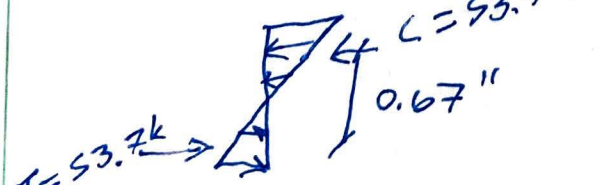


$$M = \frac{PL}{4} = \frac{12k(12")}{4} = 36 k\cdot in$$

$$\frac{36 k\cdot in}{0.5"} = 72 \text{ kip}$$

$$\frac{72 \text{ kip}}{6"} = 12 \text{ kips/in}$$

ELASTIC



$$\frac{36 k\cdot in}{0.67} = 53.7 k$$

$$\frac{53.7k}{6"} \cong 9 k/in$$