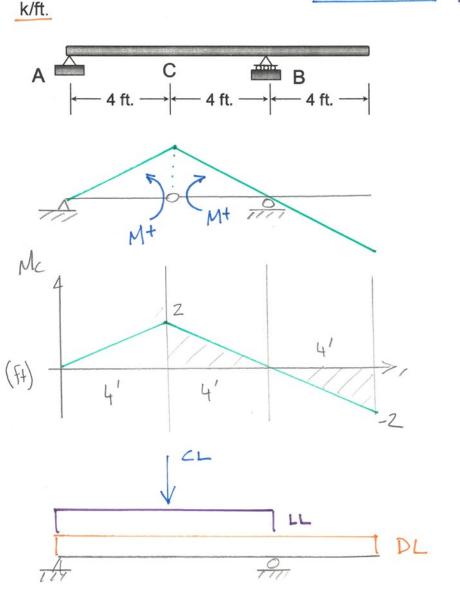
Example 6a-5: Determine the maximum *positive* moment that can be developed at point C on the beam shown below due to a single concentrated live load of 8 k, a uniform live load of 3 k/ft., and a beam weight (dead load) of 1



$$M_{c} = 8k(2f_{1}) \Rightarrow 16kf_{1}$$

$$+ 1k/f_{1}(\frac{1}{2})(8'(2') + 4'(-2')) \Rightarrow 4kf_{1}$$

$$+ 3k/f_{1}(\frac{1}{2})(8'(2')) \Rightarrow 24kf_{1}$$

$$= 44kf_{1}$$