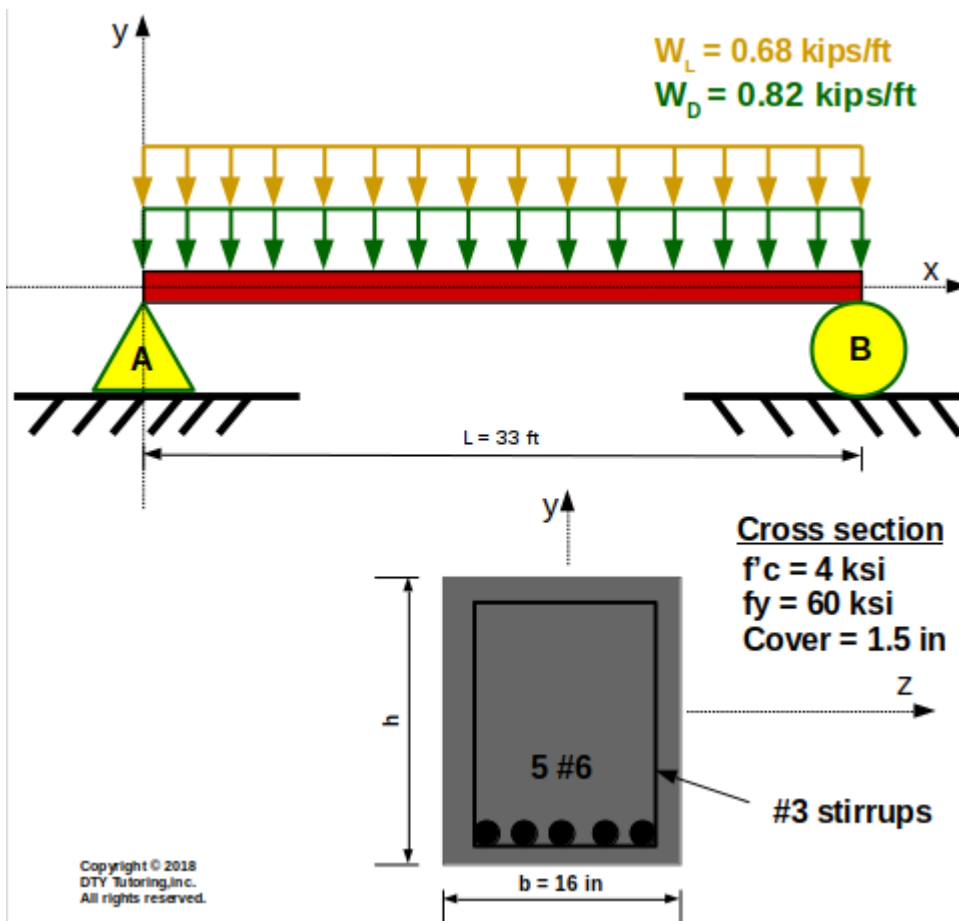


Date: 22nd December 2018

Find the required height, h , of the reinforced concrete cross section for the simply supported beam with a uniform live and dead load (self-weight included) as shown below, assuming that the steel has yielded (use factored loads).



Answers (refer to solutions for detail)

$$h = 33 \text{ in}$$