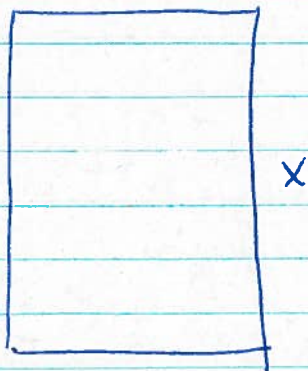


4.3 # 55



5ft

$x = ?$  so that  
rectangle is a golden rectangle

The golden ratio is

$$1 : \frac{1+\sqrt{5}}{2}$$

$\Rightarrow$  we want

$$5 : x = 1 : \frac{1+\sqrt{5}}{2}$$

i.e. 
$$\frac{5}{x} = \frac{1}{\frac{1+\sqrt{5}}{2}}$$

$$\Leftrightarrow 5 \left( \frac{1+\sqrt{5}}{2} \right) = x$$

$$\Rightarrow x \approx 8.090169944 \text{ ft}$$