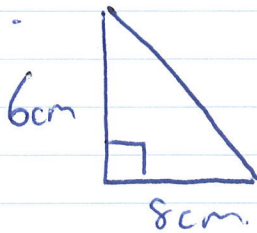


5.4

Pg 293

13.



$$A = \frac{bh}{2}$$

$$20 = \frac{(8-x)(6-x)}{2}$$

let $x =$ decrease in
side length.

$$40 = (8-x)(6-x)$$

$$40 = 48 - 14x + x^2$$

$$x^2 - 14x + 8 = 0$$

$$x = \frac{-(-14) \pm \sqrt{(-14)^2 - 4(1)(8)}}{2}$$

$$x = \frac{14 \pm \sqrt{164}}{2}$$

$$x = 13.4 \text{ cm}$$

↑
not possible.

or $x = 0.6 \text{ cm}$