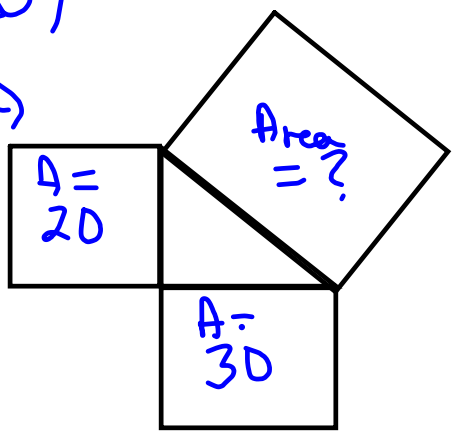
Pg 34

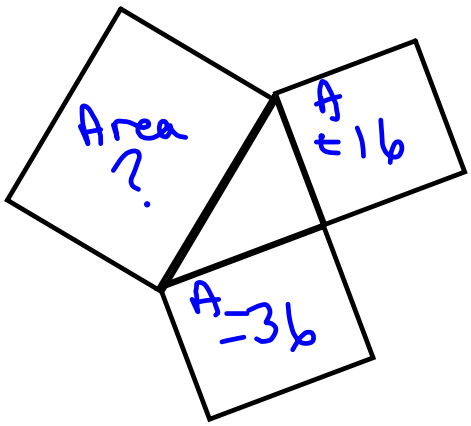
3a)



Missing Area
$20 + 30 = 50$

$A = 50$
Side Length $= \sqrt{50}$

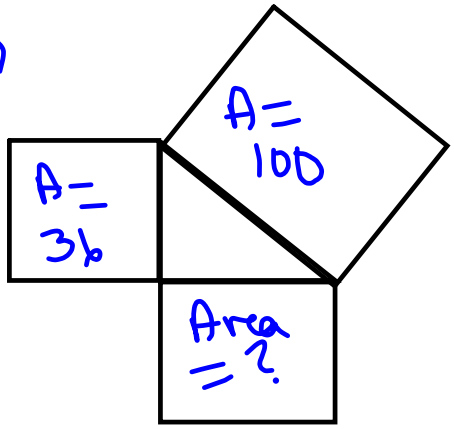
b)



Missing Area
$16 + 36 = 52$

$A = 52$
Side Length $= \sqrt{52}$

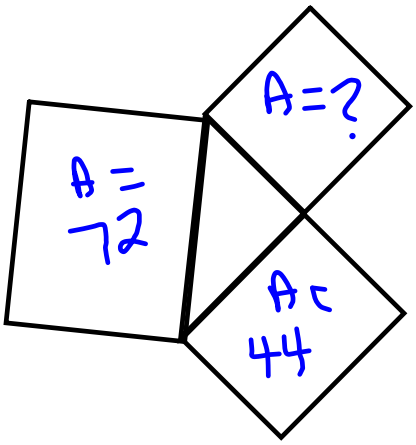
4a)



Missing Area
$100 - 36$
64

$A = 64$
Side Length $= \sqrt{64} = 8$

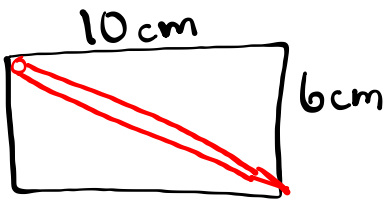
b)

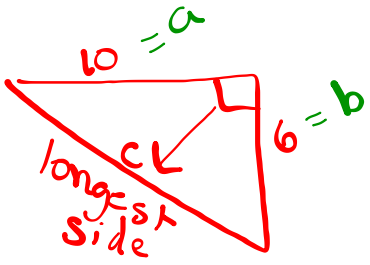


Missing Area
$72 - 44 = 28$

$A = 28$
Side Length $\sqrt{28}$

A rectangular pencil case has dimensions 10 cm by 6 cm. What is the longest pencil that can fit in the pencil case?





$c^2 = a^2 + b^2$

$= (10cm)^2 + (6cm)^2$

$= 100cm^2 + 36cm^2$

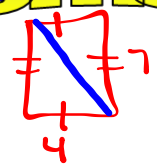
$c^2 = 136cm^2$

$\sqrt{c^2} = \sqrt{136\,cm^2}$

$c \approx 12.4\,cm$

The longest pencil is 12.4cm long.

Class/Homework

8a) 

$\Rightarrow$ 

$c^2 = a^2 + b^2$

pg. 35

5(a,b), 6(c,d) ,7(a,b), 8(a,b), 9(a), 10, ~~12~~, 13(a,b)

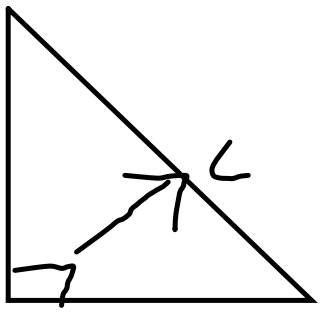
REMEMBER

$(\sqrt{20})^2 = 20$

$\sqrt{20} \times \sqrt{20}$

$\sqrt{20 \times 20}$

20



Make sure to check if you are finding c or a