

▣ *homework check:* NPM 9 p. 492 - 495

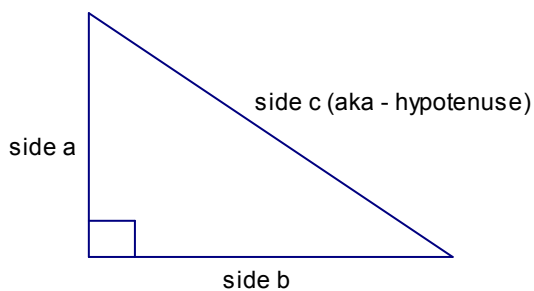
▣ *note:* Grade 9 Review (cont'd)

Substitution – When substituting values for x or y , always show your substitution step. For example,

If $x = -3$ and $y = 5$, find:

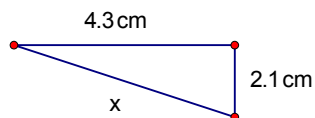
| | |
|------------------|----------------------|
| $2x + y =$ | $x^2 - 3y =$ |
| a) $= 2(-3) + 5$ | b) $= (-3)^2 - 3(5)$ |
| $= -6 + 5$ | $= 9 - 15$ |
| $= -1$ | $= -6$ |

Pythagorean Theorem – Recall the relationship $c^2 = a^2 + b^2$ for all right angled triangles.

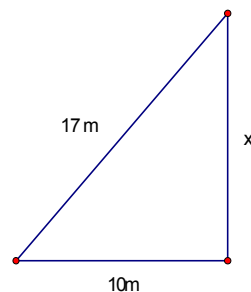


For example,

a)



b)



$$x^2 = 4.3^2 + 2.1^2$$

$$x^2 = 18.49 + 4.41$$

$$x^2 = 22.9$$

$$x = \sqrt{22.9}$$

$$x \doteq 4.8cm$$

$$17^2 = 10^2 + x^2$$

$$289 - 100 = x^2$$

$$189 = x^2$$

$$\sqrt{189} = x$$

$$13.7m \doteq x$$

▣ *homework assignment:* NPM 9 p. 36 # 11, p. 66 # 9, 10, 17, 25 ,