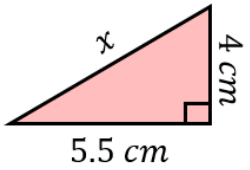
Pythagoras' Theorem Revision

(a)

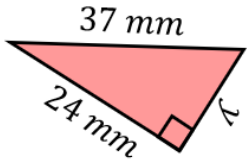
Find the value of x to 1 decimal place.



$6.8\ cm$

(b)

Find the value of y to 3 significant figures.



$28.2\ mm$

(c)

A triangle has sides of lengths $10.5\ cm$, $12\ cm$ and $16.5\ cm$. Is the triangle right-angled? Explain your answer.

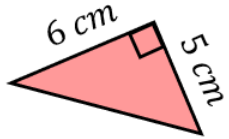
$16.5^2 = 272.25$

$10.5^2 + 12^2 = 254.25$

No

(d)

Find the perimeter of the triangle to 3 significant figures.



$18.8\ cm$

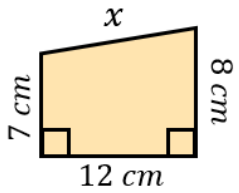
(e)

Find the distance between the coordinates $(1, 6)$ and $(3, 2)$, giving an exact answer.

$2\sqrt{5}$

(f)

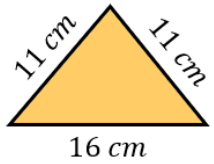
Find the value of x to 3 significant figures.



$12.0\ cm$

(g)

Find the area of the isosceles triangle to 1 decimal place.



$60.4\ cm^2$

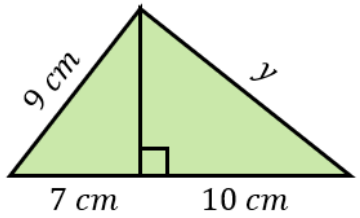
(h)

From point A, a boat sails 80 km east. It then turns and sails 110 km south to point B. Find the distance AB to the nearest km.

$136\ km$

(i)

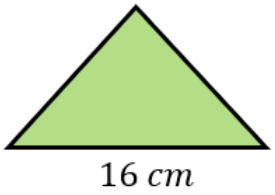
Find the value of y to 3 significant figures.



$11.5\ cm$

(j)

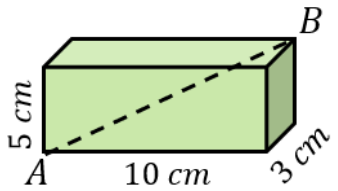
The area of the isosceles triangle is $40\ cm^2$. Find the perimeter of the triangle, to 1 decimal place.



$34.9\ cm$

(k)

Find the length of the line AB, giving your answer to 3 significant figures.



$11.6\ cm$