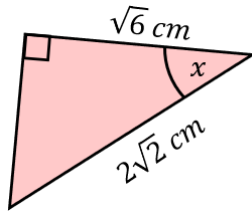


## Exact Trigonometric Values in Right-Angled Triangles

**(a)**

Find the exact value of  $x$ .

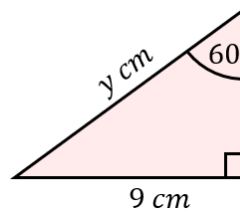
$30^\circ$



**(b)**

Find the exact length of  $y$ .

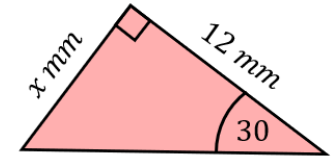
$6\sqrt{3} \text{ cm}$



**(c)**

Find the exact length of  $x$ .

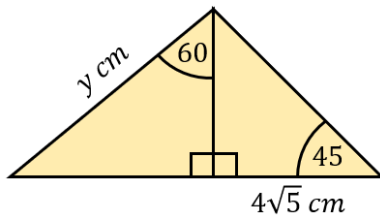
$4\sqrt{3} \text{ mm}$



**(d)**

Find the exact length of  $y$ .

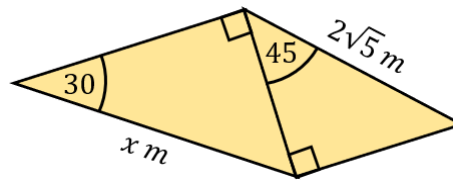
$8\sqrt{5} \text{ cm}$



**(e)**

Find the exact length of  $x$ .

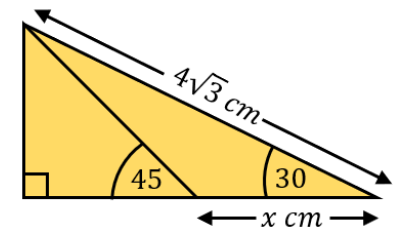
$2\sqrt{10} \text{ m}$



**(f)**

Find the exact length of  $x$ .

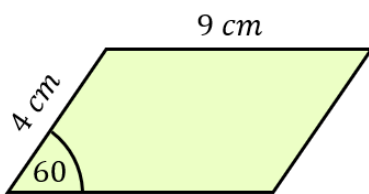
$6 - 2\sqrt{3} \text{ cm}$



**(g)**

Find the area of the parallelogram.

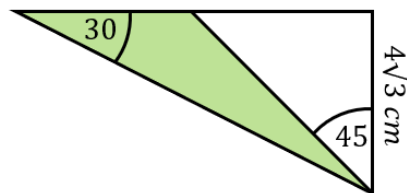
$18 \text{ cm}^2$



**(h)**

Find the exact value of the shaded area.

$24 \text{ cm}^2$



**(i)**

A triangle is joined to a parallelogram. Find the exact perimeter of the shape.

$18 + 14\sqrt{3} \text{ cm}$

