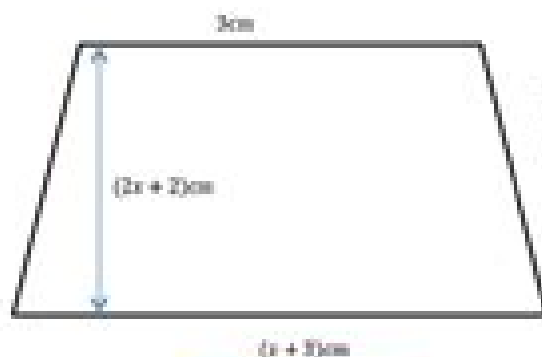


The diagram shows a trapezium.



Show that the area of the trapezium in cm^2 is $x^2 + 7x + 6$

[4 marks]

$$\begin{aligned}
 & \overbrace{x+3+3} = x+6 \\
 & \left(\frac{1}{2}x+3\right) \times (2x+2) \\
 & \begin{array}{r|rr}
 x & 2x & +2 \\
 \hline
 \frac{1}{2}x & x^2 & +x \\
 +3 & +6x & +6
 \end{array} \\
 & \underline{\underline{x^2 + 7x + 6}}
 \end{aligned}$$

$$\text{Area} = \frac{(a+b)}{2} \times h$$

$$\text{Area} = \frac{1}{2} (a+b) \times h$$

$$\rightarrow (x+6) (2x+2)$$

$$\begin{array}{r|rr}
 x & 2x & +6 \\
 \hline
 2x & 2x^2 & +12x \\
 +2 & +2x & +12
 \end{array}$$

$$2x^2 + 14x + 12 \div 2$$

$$\underline{\underline{x^2 + 7x + 6}}$$

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