

11. (a) Solve the equation



$$5x - 7 = 33 + 3x.$$

17. (a) Solve the following equation.

$$5x - 6 = 3(10 - x).$$



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4. Solve the equations



(a) $3x - 7 = 8,$

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[2]

(b) $5x + 7 = 39 - 3x.$

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[3]

14. Solve the following equation.

$$12x + 19 = 2(8 + 5x)$$



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15. Solve the following equation.



$$3(4x - 7) = 4x + 15$$

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14. Solve the following equations.



(a) $5x + 8 = 36 - 2x$

[3]

(b) $16x - 5 = 3(4x + 7)$

[3]

15. Solve the following equations.



(a) $7x - 6 = 10 + 3x$

[3]

(b) $4(2x - 5) = 2x + 1$

[3]

9. Solve



(a) $4x + 5 = 13$,

[2]

(b) $6(x - 3) = 24$.

[3]

24. Solve the following equation.



$$\frac{4x - 1}{4} + \frac{x + 8}{2} = \frac{3}{4}$$

21. Solve the following equation.

$$\frac{4x-8}{3} - \frac{x}{6} = 2$$



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23. Solve the following equation.



$$\frac{3x+1}{4} - \frac{2x+1}{2} = \frac{3}{4}$$

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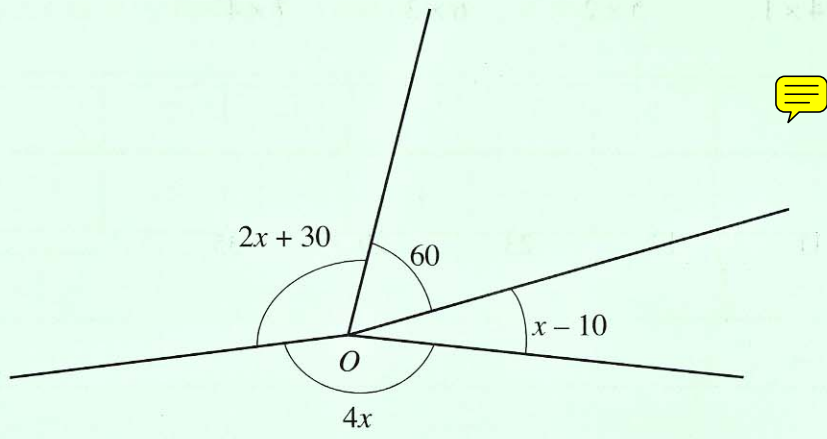
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21. Solve the following equation.



$$\frac{5x+6}{3} - \frac{3x-4}{6} = -2$$

13.



All the angles are in degrees and meet at the point O . Write down an equation that x satisfies and solve the equation to find the value of x .

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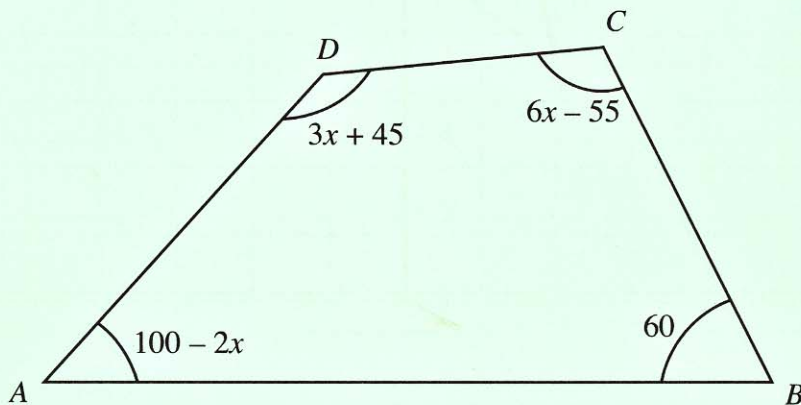


Diagram not drawn to scale.

In the quadrilateral $ABCD$ all the angles are in degrees. Write down an equation that x satisfies and solve the equation to find the value of x .

13.

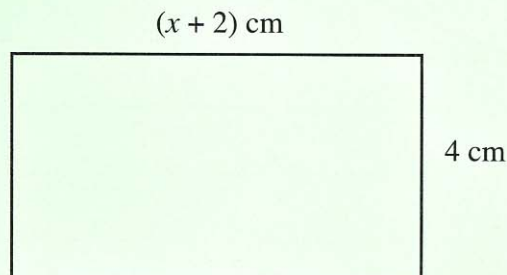
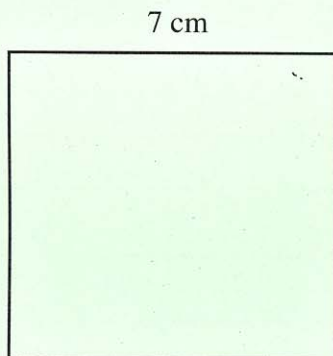


Diagram not drawn to scale.

The square and the rectangle shown above have the same area.

Write down an equation involving x .

Solve your equation to find the value of x .

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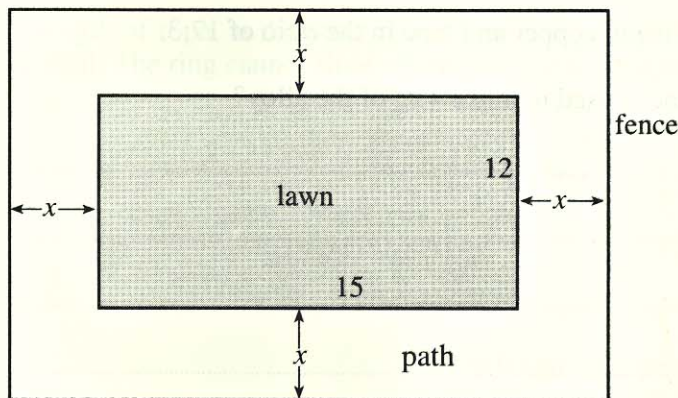
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16.



The diagram represents a rectangular lawn measuring 15 metres by 12 metres, surrounded by a path of width x metres. There is a fence all around the outside of the path.

- (a) Given that the length of the fence is 74 metres, write down an equation that x satisfies.

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- (b) Solve the equation to find the value of x .

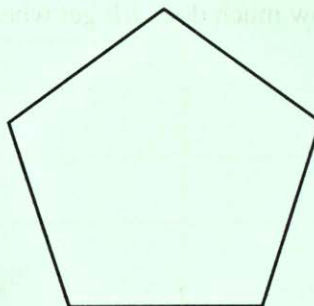
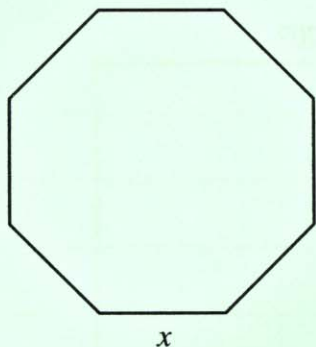
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15.



The sides of a regular octagon are x cm long. Each side of a regular pentagon is 6 cm longer than each side of the octagon. The perimeter of the octagon is 3 cm longer than the perimeter of the pentagon.

(a) Write down an equation that x satisfies.

[2]

(b) Solve the equation and hence find the length of a side of the pentagon.

[3]