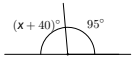
Start Tasks

State the geometric fact as an equation, then solve for the unknown.

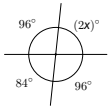
1.



Angles on a straight line are $(x+40)°$ and $95°$. Find x.

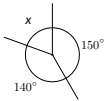
2. A right angle is split into $x°$ and $32°$. Find x.

3.



Vertically opposite angles are $(2x)°$ and $84°$. Find x.

4.



Angles around a point are $150°$, $140°$, and $x°$. Find x.

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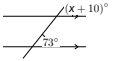
5. Co-interior angles are x° and 108°. Find x.

6.



Corresponding angles are $(x+10)^\circ$ and 73°. Find x.

7.

Alternate angles are $(3x)^\circ$ and 66°. Find x.

8.

A triangle has angles 55°, 65°, and x°. Find x.

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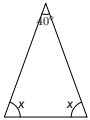
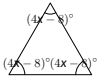
9.



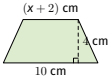
An isosceles triangle has base angles $x°$ and apex $40°$. Find x.

10.



An equilateral triangle has each angle $(4x - 8)°$. Find x.

11.



The trapezium has area 28 cm^2. Find x.

12.

A square has side x cm and perimeter 48 cm. Find x.

Start Tasks

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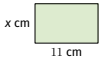
13.

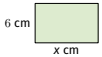


A rectangle has length 11 cm and width x cm. Its perimeter is 30 cm. Find x.

14.

A triangle has base 8 cm and height x cm. Its area is 32 cm^2. Find x.

15.



A rectangle has width 6 cm and length x cm. Its area is 54 cm^2. Find x.

16. A supplementary angle pair is x° and 112°. Find x.