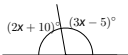


Start Tasks



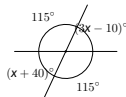
Write the geometric fact as a two-step equation, then solve for the unknown.

1.



Two angles on a straight line are $(2x + 10)^\circ$ and $(3x - 5)^\circ$. Find x .

2.



Vertically opposite angles are $(3x - 10)^\circ$ and $(x + 40)^\circ$. Find x .

3.



A triangle has angles x° , $(x + 10)^\circ$, and $(2x - 10)^\circ$. Find x .

4.



An isosceles triangle has base angles $(2x)^\circ$ and apex $(x + 50)^\circ$. Find x .

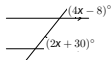
Start Tasks



Write the geometric fact as a two-step equation, then solve for the unknown.

5. Co-interior angles are $(2x + 20)^\circ$ and $(x + 40)^\circ$. Find x .

6.



Corresponding angles are $(4x - 8)^\circ$ and $(2x + 30)^\circ$. Find x .

7.



A regular hexagon has interior angle $(3x + 30)^\circ$. Find x .

8.



A rectangle has width x cm and length $(x + 4)$ cm. Its perimeter is 40 cm. Find x .

Start Tasks



Write the geometric fact as a two-step equation, then solve for the unknown.

9.



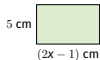
A square has side $(x + 3)$ cm and perimeter 72 cm. Find x .

10.



A triangle has base $(x + 2)$ cm and height 10 cm. Its area is 60 cm^2 . Find x .

11.



A rectangle has width 5 cm and length $(2x - 1)$ cm. Its area is 45 cm^2 . Find x .

12.



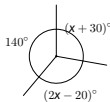
Similar rectangles have corresponding sides 6, 9 and x , 12. Find x .

Start Tasks



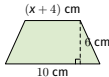
Write the geometric fact as a two-step equation, then solve for the unknown.

13.



Angles around a point are $(x + 30)^\circ$, $(2x - 20)^\circ$, and 140° . Find x .

15.



The trapezium has area 48 cm^2 . Find x .

14.



Alternate angles are $(3x - 15)^\circ$ and $(x + 45)^\circ$. Find x .

16.



A regular nonagon (9 sides) has interior angle $(2x + 20)^\circ$. Find x .