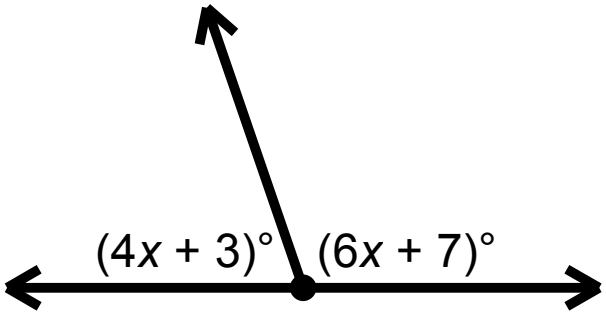
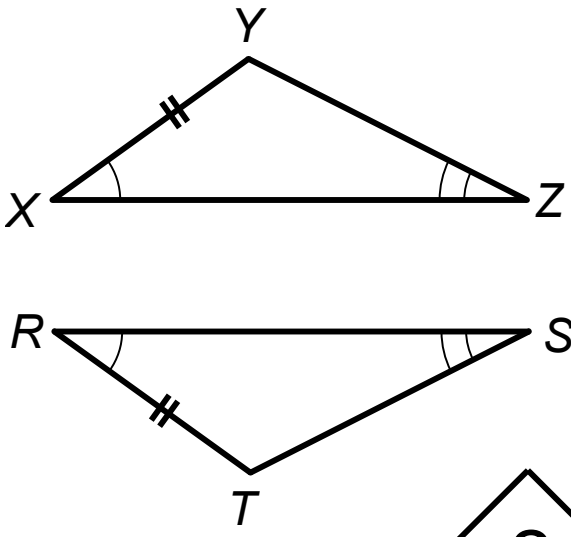
Solve for x.



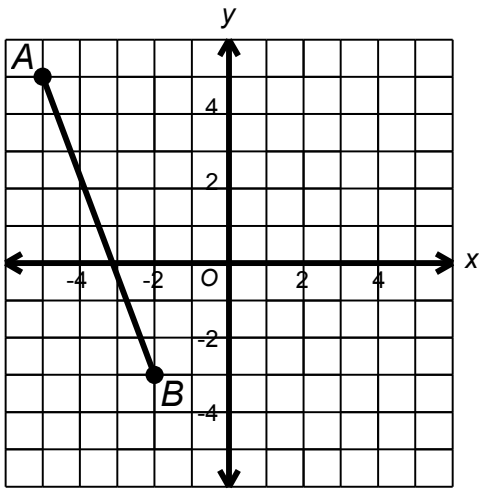
1

Determine the triangle congruence shortcut and write the congruence statement.



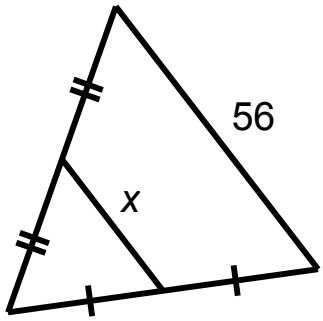
2

Find the length of the segment. Round to the nearest tenth.



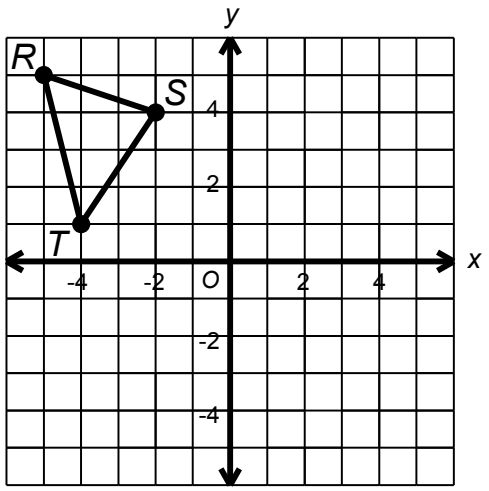
3

Find the value of x.



4

△*RST* is rotated 90° about the origin. Find the coordinates of *R′*, *S′*, and *T′*.



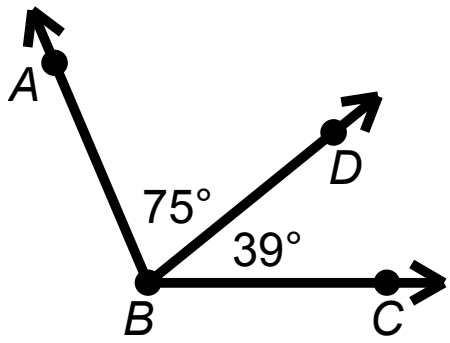
5

The sides of a triangle are shown. Determine if the triangle is a right triangle.

40, 42, 58

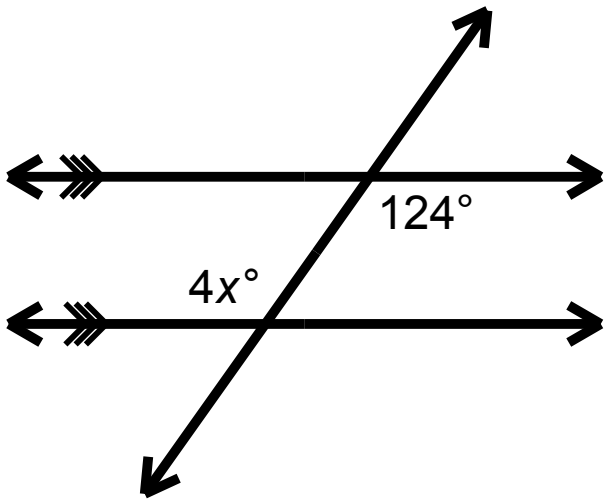
6

Find $m\angle ABC$.



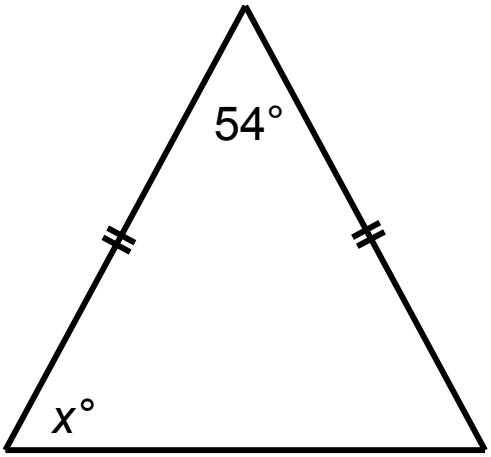
7

Solve for *x*.



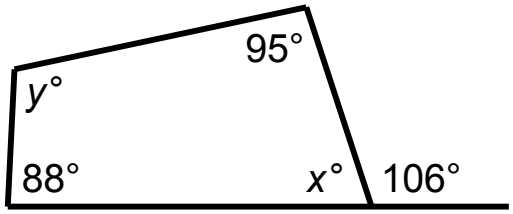
8

Solve for x.



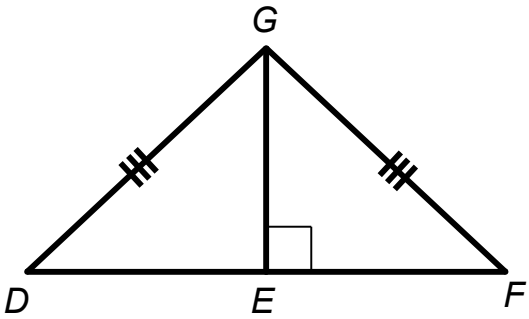
9

Solve for x and y.



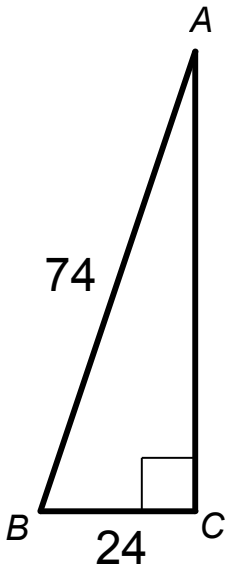
10

Name the triangle congruence shortcut that makes $\triangle DGE \cong \triangle FGE$.



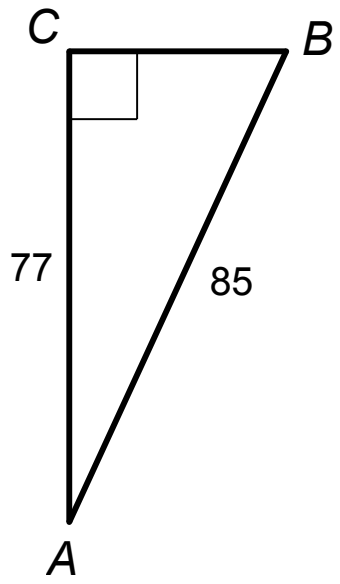
11

Find the sin, cos, and tan of $\angle A$.



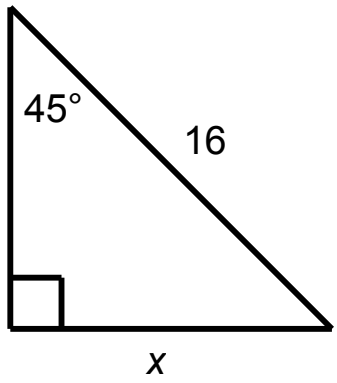
12

Solve the triangle.
(Find all angles and sides)



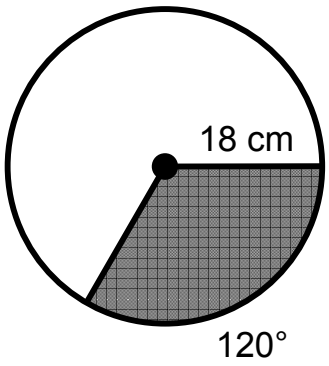
13

Find the value of x in simplest radical form.



14

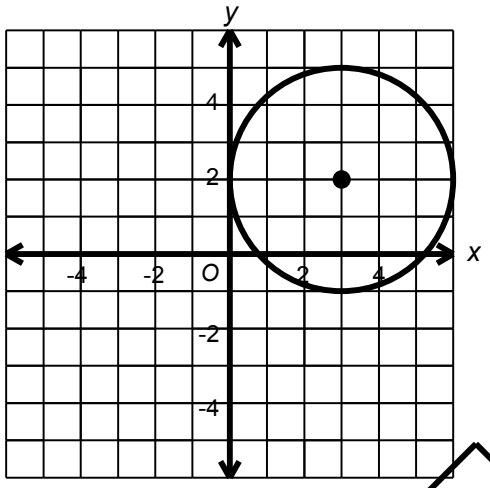
Find the area of the shaded region of the circle. Leave your answer in terms of π.



15

A) Find the center and radius of the circle:
$(x - 2)^2 + (y + 3)^2 = 36$

B) Write the standard equation of the circle below.



16

KEY

Sample Task Cards

1. $x = 17°$	2. AAS $\triangle RST \cong \triangle XZY$
3. 8.5	4. $x = 28$
5. R' (-5, -5) S' (-4, -2) T' (-1, -4)	6. yes, the sides work in the pythagorean theorem
7. $m\angle ABC = 114°$	8. $x = 31°$
9. $x = 63°$	10. $x = 74°$ $y = 103°$

11. HL	12. sin A = 12/37 cos A = 35/37 tan A = 12/35
13. $m\angle A = 25.1°$, $m\angle B = 64.9°$, $BC = 36$	14. $x = 8\sqrt{2}$
15. 108 π cm^2	16. A) center (2, -3) radius 6 B) $(x - 3)^2 + (y - 2)^2 = 9$

Please don't forget to rate this sample.
Thank you,
Marie

Record your answers below and on back.

Name_____

1.	2.
3.	4.
5.	6.
7.	8.
9.	10.

11.	12.
13.	14.
15.	16.