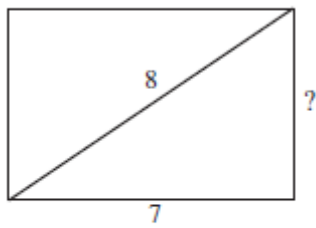
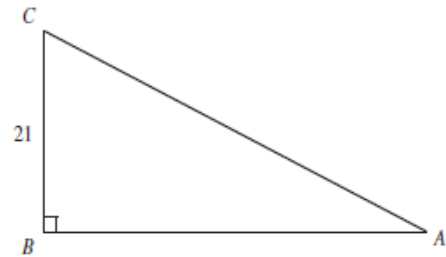


16. **63** What is the height of this rectangle?



- A 1 unit
- B 6 units
- C $\sqrt{15}$ units
- D $\sqrt{113}$ units

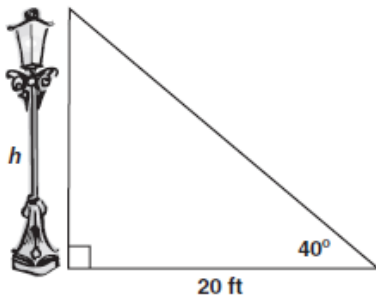
17. **75** In the figure below, $\sin A = 0.7$.



What is the length of \overline{AC} ?

- A 14.7
- B 21.7
- C 30
- D 32

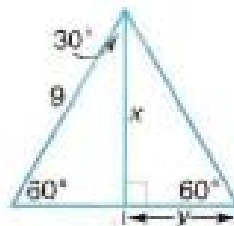
18. **76** Approximately how many feet tall is the streetlight?



- A 12.8
- B 15.4
- C 16.8
- D 23.8

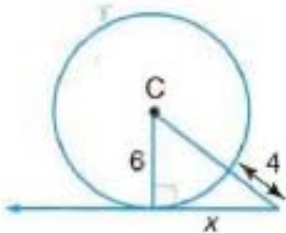
$\sin 40^\circ \approx 0.64$ $\cos 40^\circ \approx 0.77$ $\tan 40^\circ \approx 0.84$
--

19. Find the values of x and y .

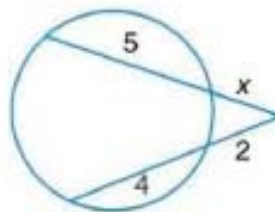


20. The diagonal of a square measures 10 cm. Find the length of a side.

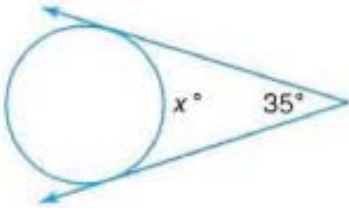
21. Find x .



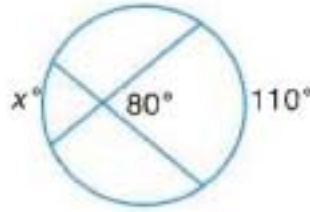
22. Find x .



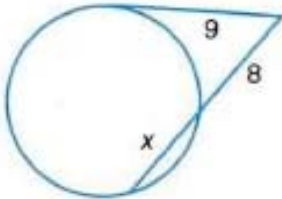
23. Find x .



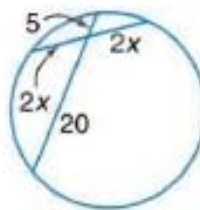
24. Find x .



25. Find x .

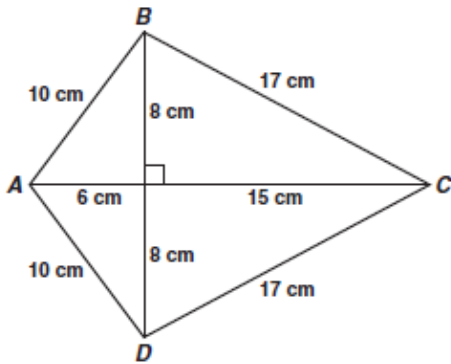


26.



27. Find x .

34 Figure $ABCD$ is a kite.



What is the area of figure $ABCD$, in square centimeters?

- A 120
- B 154
- C 168
- D 336

28.

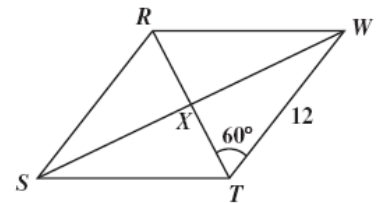
35 If a cylindrical barrel measures 22 inches in diameter, how many inches will it roll in 8 revolutions along a smooth surface?

- A 121π in.
- B 168π in.
- C 176π in.
- D 228π in.

29.

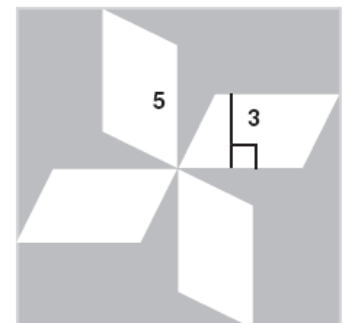
42 If $RSTW$ is a rhombus, what is the area of $\triangle WXT$?

- A $18\sqrt{3}$
- B $36\sqrt{3}$
- C 36
- D 48



30. The figure is a square with 4 congruent parallelograms inside. What is the area, in square units, of the shaded region?

- A 60
- B 84
- C 114
- D 129



12