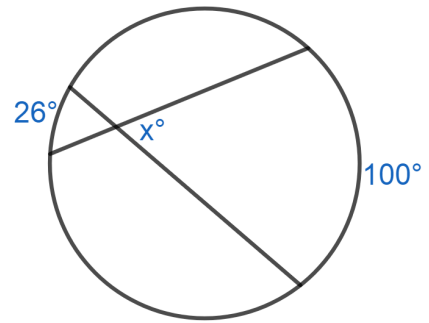


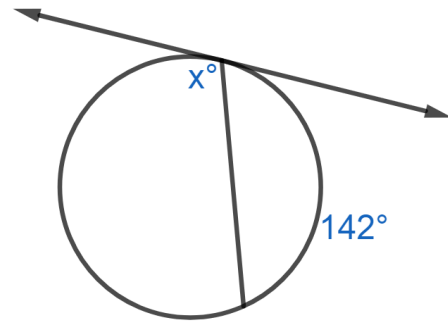
# Free Chance to Take a Risk and Make Mistakes

What is the value of  $x$ ?



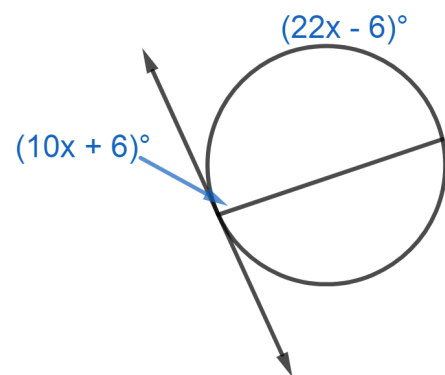
---

What is the value of  $x$ ?



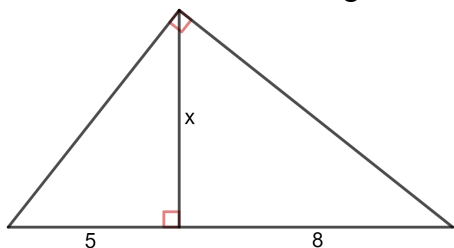
---

What is the value of  $x$ ?



# Spiraling Practice

What is the value of  $x$  in the figure below?

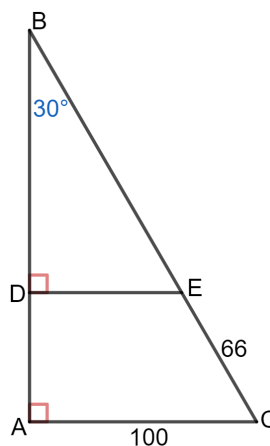


- A 8
- B  $2\sqrt{10}$
- C  $5\sqrt{10}$
- D  $5\sqrt{3}$

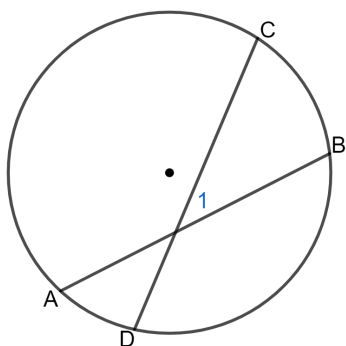
Bob places an 18-foot ladder 6 feet from the base of his house and leans it up against the side of his house. Find, to the *nearest degree*, the measure of the angle the bottom of the ladder makes with the ground.

Using the information from the diagram on the right, which of these is closest to the distance from Point B to Point D?

- A 67 feet
- B 134 feet
- C 116 feet
- D 173 feet

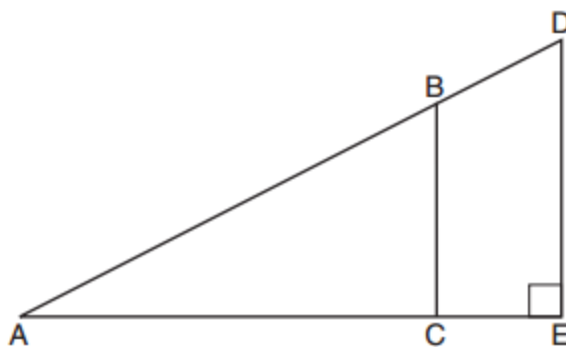


If  $m\angle 1 = 40^\circ$ , then possible measurements for arc AD and arc CB are:



- F  $50^\circ$  and  $90^\circ$
- G  $25^\circ$  and  $15^\circ$
- H  $130^\circ$  and  $110^\circ$
- J  $50^\circ$  and  $30^\circ$

In the diagram of right triangle  $ADE$  below,  $\overline{BC} \parallel \overline{DE}$ .



Which ratio is always equivalent to the sine of  $\angle A$ ?

- |                     |                     |
|---------------------|---------------------|
| (1) $\frac{AD}{DE}$ | (3) $\frac{BC}{AB}$ |
| (2) $\frac{AE}{AD}$ | (4) $\frac{AB}{AC}$ |