

1. $\triangle ABC$ is dilated from center A by a factor not equal to 1 to form $\triangle AKL$. Which of the statements must be true?

Select **all** that apply.

- A. \overline{AB} and \overline{AK} lie on the same line.
- B. The line containing \overline{BC} is parallel to the line containing \overline{KL} .
- C. $\angle ABC \cong \angle ACB$
- D. $\angle ABC \cong \angle AKL$
- E. $\triangle ABC \sim \triangle AKL$
- F. $\triangle ABC \cong \triangle AKL$

2. A square has sides that are each 90 feet long. Which equations can be used to calculate d , the length of a diagonal of the square, in feet?

Select **all** that apply.

- A. $d = \frac{1}{2} (90 \times 90)$
- B. $d = \sqrt{90^2 + 90^2}$
- C. $d = \sqrt{4 \times 90^2}$
- D. $\cos 45^\circ = \frac{90}{d}$
- E. $\sin 45^\circ = \frac{90}{d}$
- F. $\tan 45^\circ = \frac{90}{d}$

3. Select from the drop-down menus to correctly complete each sentence.

The set of all points in a plane that are equidistant from a given point is called a

The given point is called the

Choose...
 square
 sphere
 segment
 circle

Choose...
 square
 sphere
 segment
 circle