

# General Geometry Tips & Reminders

- \* When a figure is provided, be sure to mark all given information on the picture.
- \* When a figure or relationship is described, make your first step drawing and labeling a picture.

A field mouse hears a noise and looks up to see a hawk flying overhead. The mouse's line of sight makes an  $70^\circ$  angle with the ground. If the hawk is flying at an altitude of 35 feet, how long is the hawk's direct path to the mouse?

- A. 32.9 ft
- B. 37.2 ft
- C. 47.8 ft
- D. 60.6 ft

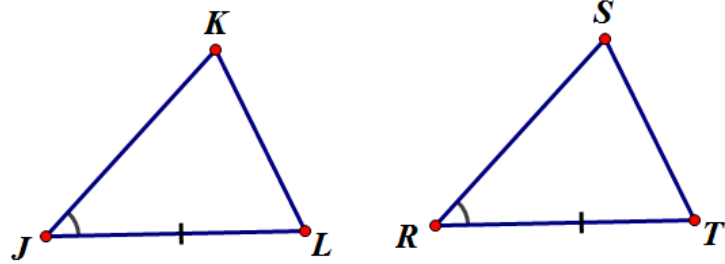
What additional information would allow you to prove  $\triangle JKL \cong \triangle RST$  ?

A.  $\overline{LK} \cong \overline{TS}$

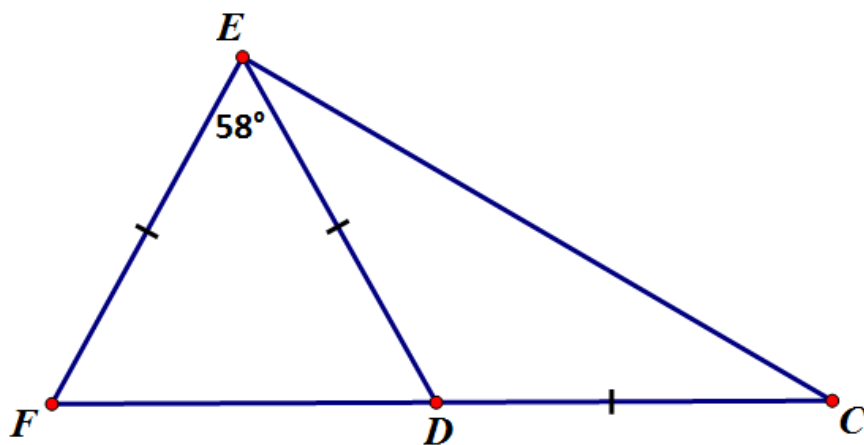
B.  $\overline{JK} \cong \overline{SR}$

C.  $\angle L \cong \angle S$

D.  $\angle K \cong \angle S$



Determine  $\angle C$ . Explain the relationships you used to the angle measure.



In right triangle ABC, angle A and angle B are complementary angles. The value of  $\cos A$  is  $\frac{7}{25}$ . What is the value of  $\sin B$ ?

- A.  $\frac{7}{25}$
- B.  $\frac{24}{25}$
- C.  $\frac{24}{7}$
- D.  $\frac{7}{24}$

John is the local tennis pro at the country club, and he needs to know at what height the tennis ball needs to be when he hits it so he can clear a 0.9 meter net from 12 meters away, and have the ball land 6 meters on the other side. Find the height at which John needs to hit the ball.