$\qquad$
Match the term on the left with its figure on the right.

1) Equilateral triangle
2) Scalene right triangle
3) Isosceles right triangle
4) Isosceles obtuse triangle

Sketch, label, and mark the figures.
5) Isosceles acute triangle $A C T$ with $A C=C T$
6) Scalene triangle $S C L$ with angle bisector $\overline{C M}$
D.

C.

9) Two noncongruent triangles, each with side 6 cm and an angle measuring $40^{\circ}$
10) Isosceles acute triangle with base $A C$ and vertex angle $B$
7) Isosceles right triangle $C A R$ with $m \angle C R A=90^{\circ}$
11) Isosceles obtuse triangle $Z A P$ with base angles $A$ and $Z$
8) Two different isosceles triangle with perimeter $4 a+b$

Tell whether the statement is true or false. For each false statement, sketch a counterexample or explain why the statement in false.
12) An acute angle is an angle whose measure is less than $90^{\circ}$.
13) If two lines intersect to form a right angle, then the lines are perpendicular.
14) A diagonal is a line segment that connects any two vertices of a polygon.
15) A ray that divides the angle into two angles is the angle bisector.

## Use the graphs.

17) Locate point $L$ so that $\Delta L R Y$ is an isosceles triangle. What are the coordinates of point $L$ ?

18) Locate point $O$ so that $\triangle M O E$ is an isosceles right triangle. What are the coordinates of point $O$ ?


## Sketch, label, and mark each figure.

21) Pentagon $P E N T A$ with $P E=E N$
22) An obtuse triangle has exactly one angle whose measure is greater than $90^{\circ}$.
23) Locate point $R$ so that $\triangle C R L$ is an isosceles right triangle. What are the coordinates of point $R$ ?


## Complete.

20) Use the ordered pair rule $(x, y) \rightarrow$ $(x+1, y-3)$ to relocate the four vertices of the given quadrilateral. Connect the four new points to create a new quadrilateral. Do the two quadrilaterals appear congruent?

21) Equiangular quadrilateral $Q U A D$ with $Q U \neq Q D$
22) Hexagon $N G A X E H$ with $\angle H E X \cong$ $\angle E X A$
