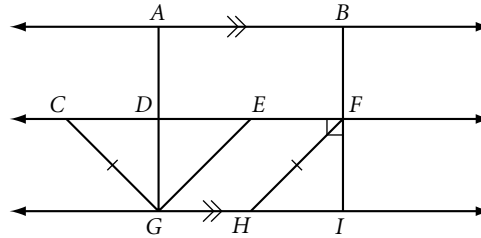


# Triangles

Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

For Exercises 1–5, use the figure at right. Name a pair of

1. Parallel segments
2. Perpendicular segments
3. Congruent segments
4. Supplementary angles
5. Linear angles



For Exercises 6 and 7, sketch, label, and mark each figure.

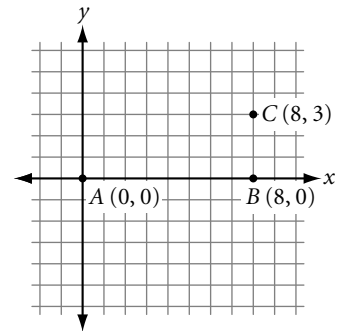
6. Isosceles obtuse triangle  $TRI$  with vertex angle  $T$ .
  
7. Scalene right triangle  $SCA$  with midpoints  $L$ ,  $M$ , and  $N$  on  $\overline{SC}$ ,  $\overline{CA}$ , and  $\overline{SA}$ , respectively.

For Exercises 8 and 9, use your geometry tools to draw each figure.

8. Acute isosceles triangle  $ACD$  with vertex angle  $A$  measuring  $40^\circ$ .
9. Scalene right triangle  $RGH$ .

For Exercises 10–12, use the graph at right.

10. Locate  $F$  so that  $\triangle ABF$  is a right triangle.
11. Locate  $D$  so that  $\triangle ABD$  is an isosceles triangle.
12. Locate  $G$  so that  $\triangle ABG$  is scalene and not a right triangle.



# Special Quadrilaterals

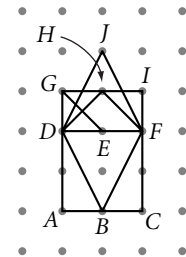
Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

For Exercises 1–6, sketch, label, and mark each figure.

1. Parallelogram  $PGRA$
2. Square  $SQRE$
3. Rhombus  $RHOM$  with acute  $\angle H$ .
4. Trapezoid  $TRAP$  with  $\overline{TR} \parallel \overline{AP}$ ,  $\overline{RE} \perp \overline{PA}$ , and  $P, E,$  and  $A$  collinear.
5. Kite  $KITE$  with  $EK = KI$  and obtuse  $\angle K$ .
6. Rectangle  $RANG$  with perimeter  $2a + 4b$

For Exercises 7–10, name each polygon in the figure. Assume that the grid is square.

7. Square
8. Parallelogram
9. Rhombus
10. Kite



For Exercises 11–13, use the graph at right.

11. Locate  $D$  so that  $ABCD$  is a rectangle.
12. Locate  $E$  so that  $ABCE$  is a trapezoid.
13. Locate  $G$  so that points  $A, B, C,$  and  $G$  determine a parallelogram that is not a rectangle.

