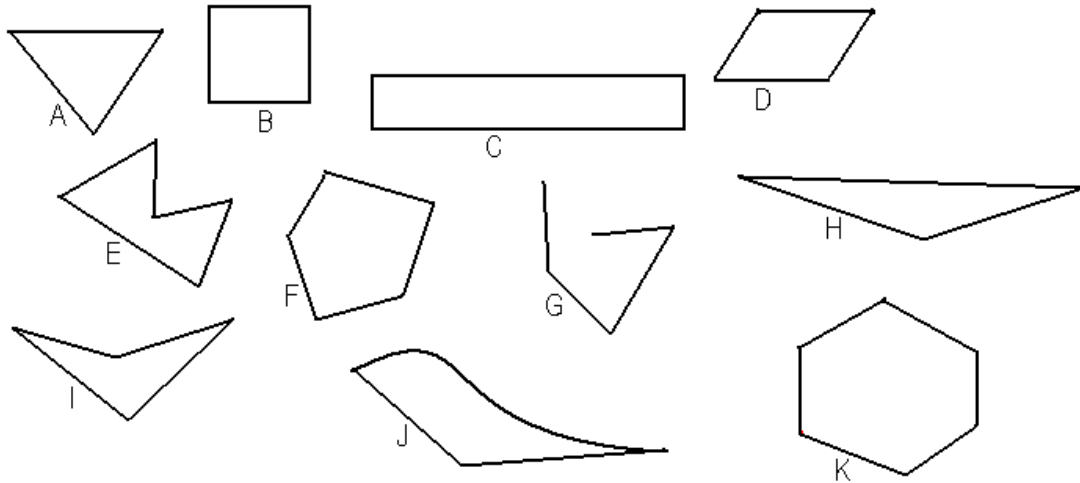


Introduction to Contemporary Math

Assignment 21

Use the figures below to answer each of the following questions.



- 1) Is A a polygon?
- 2) Is E a polygon?
- 3) Is G a polygon?
- 4) Is J a polygon?
- 5) Is I convex?
- 6) Is K convex?
- 7) What type of quadrilateral is D?
- 8) What type of quadrilateral is C?
- 9) Which polygons are regular?
- 10) Which polygons are pentagons?
- 11) Which polygons are hexagons?

A polygon is called **regular** if all of the sides are congruent to each other and all of the interior angles are congruent to each other. So, for example, a square is a regular quadrilateral.

Sketch each of the following if possible. If not possible, say so.

- 12) A scalene triangle.
- 13) A regular octagon.
- 14) A regular triangle.
- 15) A regular pentagon.
- 16) A concave heptagon.
- 17) A concave quadrilateral
- 18) A concave triangle