

Name \_\_\_\_\_

Section \_\_\_\_\_

### EXERCISE 10 PROBLEMS—PART 1

1. Group the following angles ( $0^\circ$  to  $360^\circ$ ) according to whether they are acute, obtuse, or reflex angles. Indicate the classification with letters in words below:

|     | Class       | Classification |     | Class       | Classification |
|-----|-------------|----------------|-----|-------------|----------------|
| (a) | $100^\circ$ | Obtuse         | (c) | $180^\circ$ | Reflex         |
| (b) | $10^\circ$  | Acute          | (d) | $350^\circ$ | Reflex         |

2. Group the angles and the quadrilaterals in (a) to (d) according to the size of the angles in the following quadrilaterals in the class group:

|     | Class         | Quadrilateral | Classification of Angles                 | Size of Angles                           | Size of Angles                           |
|-----|---------------|---------------|--|--|--|
| (a) | Quadrilateral | ABCD          | $90^\circ, 90^\circ, 90^\circ, 90^\circ$ | $90^\circ, 90^\circ, 90^\circ, 90^\circ$ | $90^\circ, 90^\circ, 90^\circ, 90^\circ$ |
| (b) | Quadrilateral | ABCD          | $90^\circ, 90^\circ, 90^\circ, 90^\circ$ | $90^\circ, 90^\circ, 90^\circ, 90^\circ$ | $90^\circ, 90^\circ, 90^\circ, 90^\circ$ |
| (c) | Quadrilateral | ABCD          | $90^\circ, 90^\circ, 90^\circ, 90^\circ$ | $90^\circ, 90^\circ, 90^\circ, 90^\circ$ | $90^\circ, 90^\circ, 90^\circ, 90^\circ$ |

3. A quadrilateral ABCD is a parallelogram. The angles are given in the following table. Find the angles in the quadrilateral ABCD.

| Angle      | Size of Angle |
|------------|---------------|
| $\angle A$ | $100^\circ$   |
| $\angle B$ | $80^\circ$    |
| $\angle C$ | $100^\circ$   |
| $\angle D$ | $80^\circ$    |

4. Classify the angles of the triangles in the following table according to the size of the angles. Indicate the classification with letters in words below:

| Class        | Classification of Angles | Size of Angles                  | Size of Angles                  |
|--------------|--------------------------|---------------------------------|---------------------------------|
| Triangle ABC | Obtuse                   | $100^\circ, 80^\circ, 20^\circ$ | $100^\circ, 80^\circ, 20^\circ$ |
| Triangle DEF | Acute                    | $90^\circ, 80^\circ, 10^\circ$  | $90^\circ, 80^\circ, 10^\circ$  |
| Triangle GHI | Obtuse                   | $100^\circ, 80^\circ, 20^\circ$ | $100^\circ, 80^\circ, 20^\circ$ |



# Answer To Lab Manual Exercise 10 Pearson

**Patrick Vollmar**





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