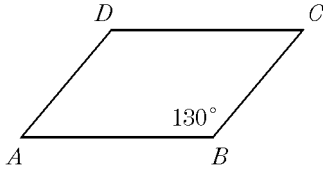


Some Quad Problems

Name: _____

Date: _____

1. In parallelogram $ABCD$, the measure of $\angle ABC$ is 130° . Find the measure, in degrees, of $\angle DAB$.



2. In which quadrilateral are the diagonals always congruent?

- A. rectangle B. trapezoid
C. rhombus D. parallelogram

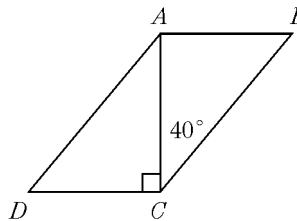
3. In quadrilateral $ABCD$, $m\angle A = 72$, $m\angle B = 94$, and $m\angle C = 113$. What is $m\angle D$?

- A. 81 B. 86 C. 108 D. 136

4. All of the following figures must have congruent diagonals *except*

- A. a rectangle
B. a square
C. an isosceles trapezoid
D. a parallelogram

5. In parallelogram $ABCD$, diagonal $\overline{AC} \perp \overline{CD}$. If $m\angle ACB = 40$, find $m\angle ADC$.

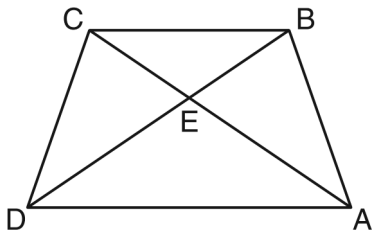


6. The measures of two consecutive angles of a parallelogram are in the ratio 3:7. Find the measure of an acute angle of the parallelogram.

7. Which polygon must have congruent diagonals?

- A. rhombus
- B. square
- C. parallelogram
- D. trapezoid

8. In the diagram of trapezoid $ABCD$ below, diagonals \overline{AC} and \overline{BD} intersect at E and $\triangle ABC \cong \triangle DCB$.



Which statement is true based on the given information?

- A. $\overline{AC} \cong \overline{BC}$
- B. $\overline{CD} \cong \overline{AD}$
- C. $\angle CDE \cong \angle BAD$
- D. $\angle CDB \cong \angle BAC$

9. Which reason could be used to prove that a parallelogram is a rhombus?

- A. Diagonals are congruent.
- B. Opposite sides are parallel.
- C. Diagonals are perpendicular.
- D. Opposite angles are congruent.

10. If the length of each side of a square is represented by $4x + 1$, which expression represents the perimeter?

- A. $16x + 4$
- B. $8x + 2$
- C. $16x^2 + 1$
- D. $16x^2 + 8x + 1$

Some Quad Problems 4/16/2020

- | | |
|---------|-----|
| 1. | |
| Answer: | 50 |
| Points: | 1 |
| 2. | |
| Answer: | A |
| Points: | 1 |
| 3. | |
| Answer: | A |
| Points: | 1 |
| 4. | |
| Answer: | D |
| Points: | 1 |
| 5. | |
| Answer: | 50 |
| Points: | 1 |
| 6. | |
| Answer: | 54° |
| Points: | 1 |
| 7. | |
| Answer: | B |
| Points: | 1 |
| 8. | |
| Answer: | D |
| Points: | 1 |
| 9. | |
| Answer: | C |
| Points: | 1 |
| 10. | |
| Answer: | A |
| Points: | 1 |