

What Geometric Figure Is Like A Lost Parrot?

Write the letter of each answer in the box containing the exercise number.

- 1. Complete the sentence. Two geometric figures are _____ figures if and only if there is a rigid motion or a composition of rigid motions that maps one of the figures onto the other.
- 2. Congruent figures have the same size and shape. True or false?
- **3.** Are three equilateral triangles with respective sides of 3 centimeters, 4 centimeters, and 4 inches congruent? Yes or no?
- **4.** A figure is reflected in line k, and the image is then reflected in line m. The measure of the acute angle formed between lines k and m is 42° . What is the angle of rotation?

Given $\triangle ABC$ with vertices A(2, 3), B(4, 3), and C(4, -5), and the translation $(x, y) \rightarrow (x + 2, y - 1)$, find the vertex of the image.

- **5.** A'
- **6.** B'
- **7.** *C'*
- **8.** Complete the sentence. The polygons with vertices A(0, 7), B(0, 4), C(5, 4), D(5, 7) and E(7, 3), F(7, 0), G(12, 0), H(12, 3) _____ congruent.

Answers

- R. are not
- I. constructed
- **N.** (6, -6)
- M. yes
- A. are
- **B.** (2, 6)
- G. (4, 2)
- L. 84
- P. no
- **E.** 42
- O. true
- **X.** (2, 4)
- Y. congruent
- **O**. (6, 2)
- U. (-6, 6)