02-08-Sample Quiz-Introduction to Polygons

Multiple Choice
Identify the choice that best completes the statement or answers the question.

___ 1. Which of the following figures is NOT a polygon?

a.  

b.  

c.  

d.  

___ 2. Which of the following figures is NOT a simple polygon?

a.  

b.  

c.  

d.  

___ 3. Which of the following figures is concave?

a.  

b.  

c.  

d.  
4. Which of the following figures is convex?

a.  

b.  

c.  

d.  

5. Consider the following figure.

In this figure which of the below would NOT be considered a trapezoid?

a. □ ABDH  

b. □ BIHD  

c. □ ABEF  

d. □ HDEG  

6. Which is the only shape below that could NOT be classified as a parallelogram?

a.  

b.  

c.  

d.  

7. Which of the below correctly describes this figure?

Assume \( \overline{VY} \) is not parallel to \( \overline{WX} \)

a. Trapezoid  

b. Parallelogram  

c. Rhombus  

d. Kite
8. “A rectangle is a parallelogram”

Based on the precise quadrilateral definitions which best describes the above statement?

a. Never True  
b. Sometimes True  
c. Always True  
d. Not enough information to be determined

9. “A rectangle is a rhombus”

Based on the precise quadrilateral definitions which best describes the above statement?

a. Never True  
b. Sometimes True  
c. Always True  
d. Not enough information to be determined

10. Given the congruent marks and your knowledge of proofs (SAS and CPCTC) what is the best and most restrictive description of the quadrilateral ABCD?

(Figure may not be drawn accurately. Base your decision on congruency marks.)

a. Rectangle  
b. Rhombus  
c. Parallelogram  
d. Trapezoid