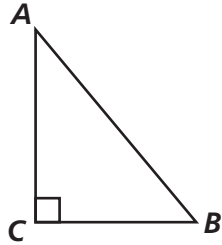


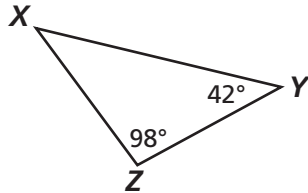
GRADE 10 Focus on Sunshine State Standards: Benchmark Tests
MA.912.G.4.7 Benchmark Pre-Test (Multiple Choice)

1. In $\triangle ABC$, $AB > BC$. Which statement must ALWAYS be true?



- A. $m\angle A > m\angle B$
- B. $m\angle A > m\angle C$
- C. $m\angle B > m\angle C$
- D. $m\angle C > m\angle A$

2. Which shows the sides of $\triangle EFG$ in order from longest to shortest?

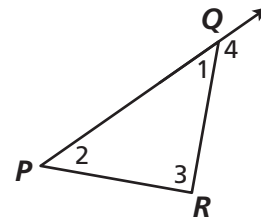


- F. $\overline{EF}, \overline{FG}, \overline{GE}$
- G. $\overline{EF}, \overline{GE}, \overline{FG}$
- H. $\overline{FG}, \overline{GE}, \overline{EF}$
- I. $\overline{FG}, \overline{EF}, \overline{GE}$

3. Carlos has 60 feet of fence to make a triangular garden. Which of the following sets of side lengths will NOT work?

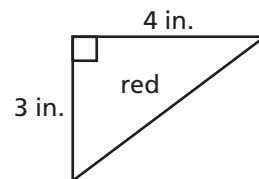
- A. 10 feet, 15 feet, 35 feet
- B. 10 feet, 25 feet, 25 feet
- C. 15 feet, 20 feet, 25 feet
- D. 20 feet, 20 feet, 20 feet

4. Angle 4 is an exterior angle of $\triangle PQR$. Which statement is true?



- F. $m\angle 1 < m\angle 4$
- G. $m\angle 4 < m\angle 2$
- H. $m\angle 4 > m\angle 2$
- I. $m\angle 3 > m\angle 4$

5. The red triangles in Marsha's quilt have sides measuring 3, 4, and 5 inches. The blue triangles have sides measuring 3, 4, and 6 inches. Which term describes the blue triangles?

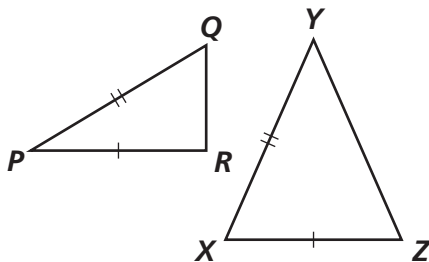


- A. right
- B. acute
- C. obtuse
- D. isosceles

GRADE 10 Focus on Sunshine State Standards: Benchmark Tests
MA.912.G.4.7 Benchmark Pre-Test (Multiple Choice)

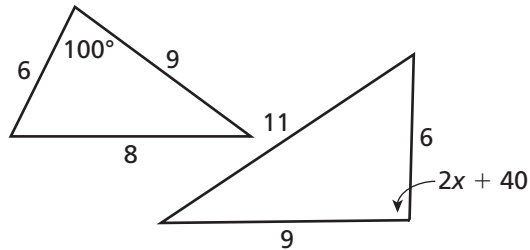
6. A triangular playground has two sides measuring 50 feet and 85 feet. Between which two measures must the third side of the triangle fall?
- F. 0 feet and 135 feet
 G. 35 feet and 135 feet
 H. 50 feet and 85 feet
 I. 85 feet and 135 feet

7. In the figure below $m\angle P < m\angle X$. What conclusion can you make using the Hinge Theorem?

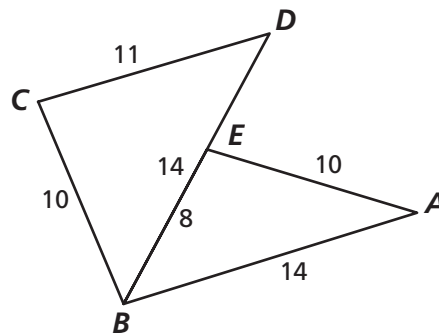


- A. $QR < YZ$
 B. $QR > YZ$
 C. $PQ = XY$
 D. $PR = XZ$
8. In $\triangle ABC$ and $\triangle XYZ$, $AB = XY$, $BC = YZ$, and $m\angle B > m\angle Y$. What statement describes the relationship between AC and XZ ?
- F. $AC = XZ$
 G. $AC > XZ$
 H. $AC < XZ$
 I. $AC \leq XZ$

9. Which inequality describes the possible values of x ?



- A. $x < 30$
 B. $x > 30$
 C. $x < 120$
 D. $x > 120$
10. Which statement can be proven using the converse of the Hinge Theorem?



- F. $EB < CD$
 G. $EB > CD$
 H. $m\angle EAB > m\angle CBD$
 I. $m\angle EAB < m\angle CBD$