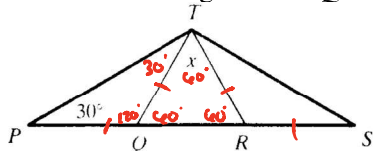
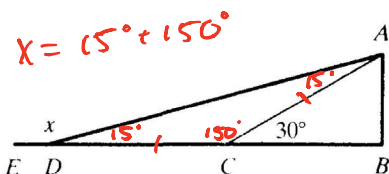


Orientation Exercises 12

1. In the figure, $\angle P$ measures 30° . \overline{PS} is a line segment and $PQ = QT = TR = RS$. Find the number of degrees in $\angle QTR$.



- A. 10° **D.** 60°
 B. 20° E. 80°
 C. 40°
2. In the figure, $AC = CD$. Find the number of degrees in $\angle ADE$.

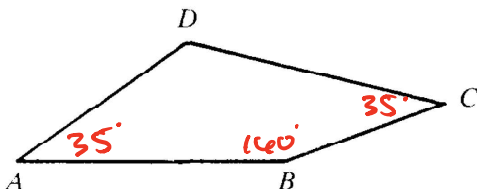


- A. 105° D. 150°
 B. 120° **E.** 165°
 C. 135°

3. Which of these side lengths do not form a triangle?

- A. 1-1-1 *The two smallest must*
 B. 7-24-25 *sum to be larger than*
C. 30-60-90 *3rd side.*
 D. 3-4-5
 E. $\sqrt{2} - \sqrt{3} - \sqrt{5}$

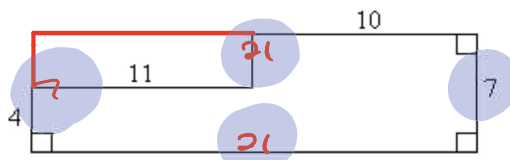
4. In quadrilateral $ABCD$, the measures of $\angle A$, $\angle B$, and $\angle C$ are 35° , 160° , and 35° , respectively. What is the measure of $\angle D$?



- A. 120° D. 170°
B. 130° E. 230°
 C. 160°

$360 - 35 - 160 - 35$

5. The perimeter of the figure below is:

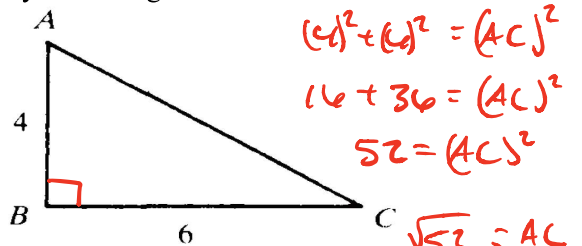


- A. 35 D. 48
 B. 53 E. 36
C. 56

6. A polygon is not a triangle if it has exactly:

- A. three sides
 B. three angles
 C. one of its angles measuring 135°
 D. two perpendicular sides
E. two parallel sides

7. In the figure, $\angle ABC$ is a right angle, \overline{AB} is 4 units long, and \overline{BC} is 6 units long. How many units long is \overline{AC} ?



- A. 2 **D.** $2\sqrt{13}$ $2\sqrt{13} = AC$
 B. $\sqrt{10}$ E. 10
 C. $2\sqrt{5}$

8. A right triangle with legs of length 7 inches and 24 inches has a perimeter, in inches, of:

- A. 31 D. 168
B. 56 E. None of the above
 C. 84

9. The length of a side of a square is $4\sqrt{2}$. What would be the length of the square's diagonal?

- A. 4 D. $8\sqrt{2}$
 B. $4\sqrt{2}$ E. 16
C. 8

