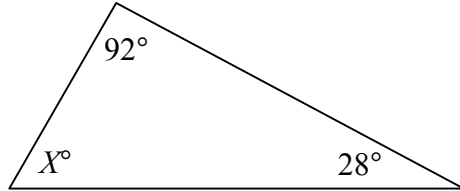


Angle Items

Order these items by level of difficulty, then identify the grade in which you think the content for each item is taught.

1. Find the measure of the third angle in the triangle.



- A. 30° B. 60° C. 90° D. 180° E. None of the above

2. In a quadrilateral, two of the angles each have a measure of 110° , and the measure of a third angle is 90° . What is the measure of the remaining angle?

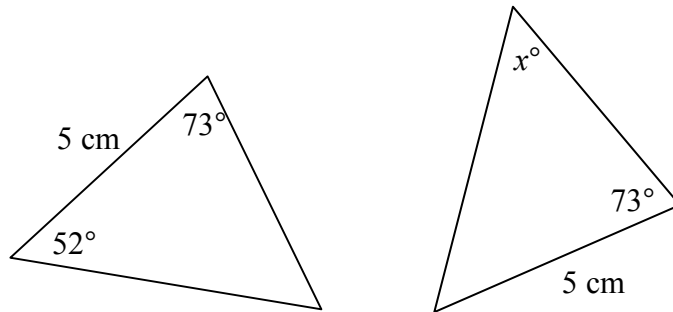
- a) 50° b) 90° c) 130° d) 140° e) None of the above

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3. These triangles are congruent. The measures of some of the sides and angles of triangles are shown.

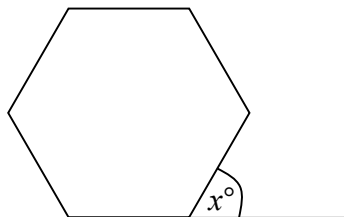
What is the value of x ?

- A. 52
B. 55
C. 65
D. 73
E. 75

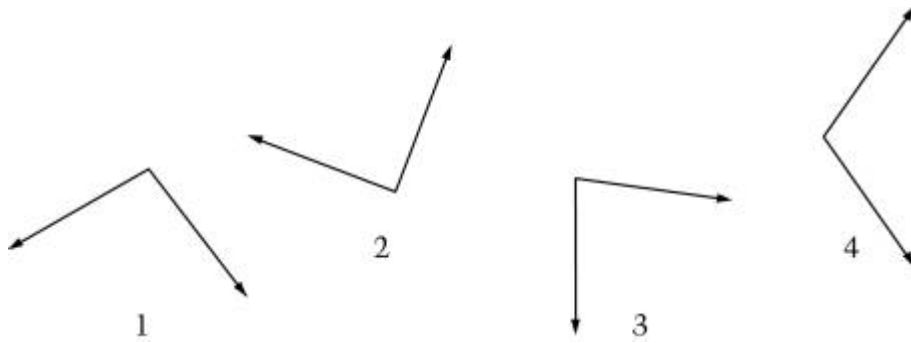


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4. The figure below is a regular hexagon. What is the value of x ? _____



TIMSS 2003 Released Items



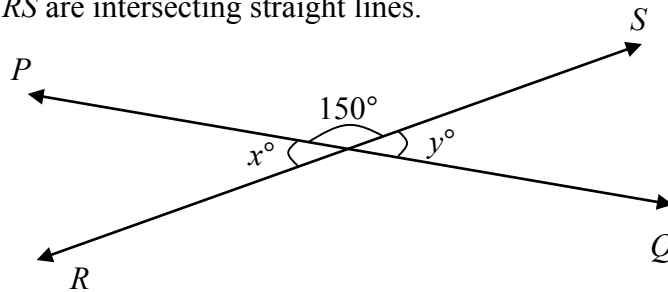
5.

Which of the following lists the angles shown above in order of measure from smallest to largest?

- A. 1, 2, 3, 4
- B. 2, 3, 4, 1
- C. 3, 2, 1, 4
- D. 3, 1, 4, 2
- E. 4, 2, 1, 3

NAEP 2005 grade 4 Question ID: 2005-8M3 #1 M075201

6. In the figure, PQ and RS are intersecting straight lines.

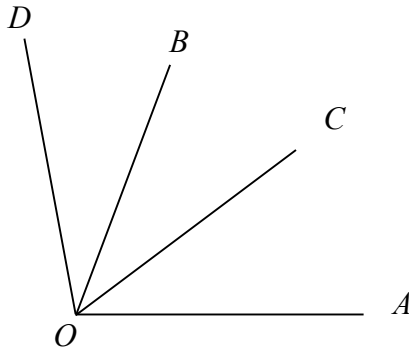


What is the value of $x + y$?

- A. 15
- B. 30
- C. 60
- D. 180
- E. 300

TIMSS 2003 Released Items

7. In the figure, the measure of $\angle AOB$ is 70° , the measure of $\angle COD$ is 60° , and the measure of $\angle AOD$ is 100° .



What is the measure of $\angle COB$? _____

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8. Quanisha was facing North. She turned toward her right until she faced East. Alisha was facing South. She turned toward her right until she faced West. What fraction of a full turn did each girl complete? Through how many degrees did each girl turn?

EngageNY mid module assessment

9. The vertices of the triangle PQR are the points $P(1,2)$, $Q(4,6)$ and $R(-4, 12)$. Which one of the following statements about triangle PQR is true?

- A. PQR is a right triangle with the right angle $\angle P$.
- B. PQR is a right triangle with the right angle $\angle Q$.
- C. PQR is a right triangle with the right angle $\angle R$.
- D. PQR is not a right triangle.

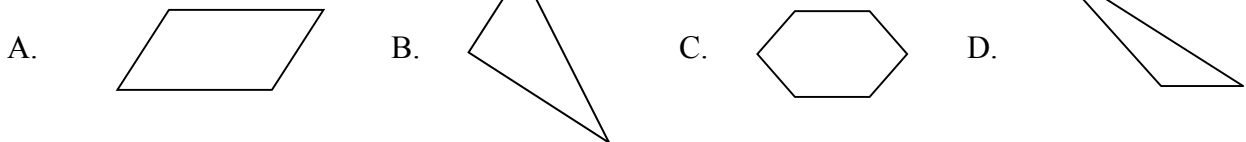
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10. Which of these angles has a measure closest to 30° ?



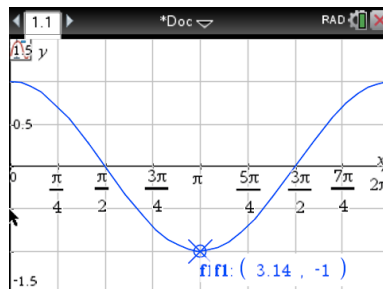
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11. Which shape has a right angle?



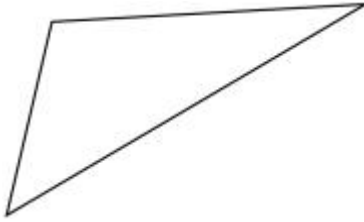
12. Given the following graph of $f(\theta) = \cos\theta$, at what angle measure do the output values of f change from increasing at an increasing rate to increasing at a decreasing rate?

- A) 0
- B) $\pi/2$
- C) π
- D) $3\pi/2$
- E) 2π



Algebra and Precalculus Concept Readiness Alternate Test (APCR alternate) – August 2013

13.

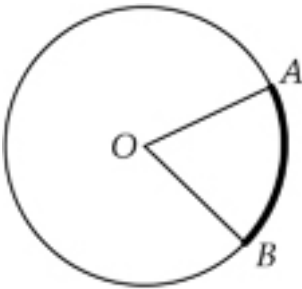


How many of the angles in this triangle are smaller than a right angle?

- A. None B. One C. Two D. Three

NAEP grade 4 2005 Question ID: 2005-4M4 #4 M046701

14.

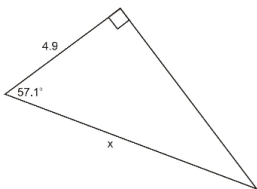


The circle above has center O . If the length of the darkened arc is $\frac{1}{6}$ of the circumference, what is the degree measure of $\angle AOB$?

- A. 75° B. 60° C. 45° D. 36° E. 30°

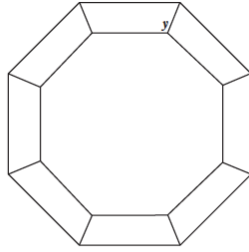
NAEP Question ID: 2007-8M9 #16 M051801 2007 grade 8

15. What is the measure of side “ x ” in the following diagram?



- a) $x=9.0$ b) $x = 27$ c) $x=5.8$ d) $x=4.1$

16. Mr. Soto drew a design for a quilting pattern. The design is made up of 8 congruent isosceles trapezoids as shown below.



Mr. Soto's Design

Mr. Soto's Design

What is the measure, in degrees, of angle y ?

FCAT Mathematics Released Test Book