

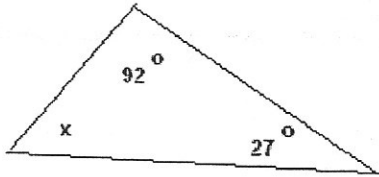
Unit 8A Quiz 2

Part 1 #1-6

Part 2 (follows) #2-25

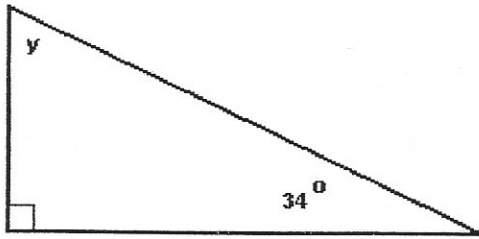
Find the unknown angles in the figures below.

1.



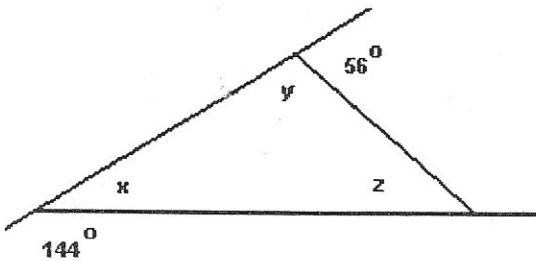
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2.



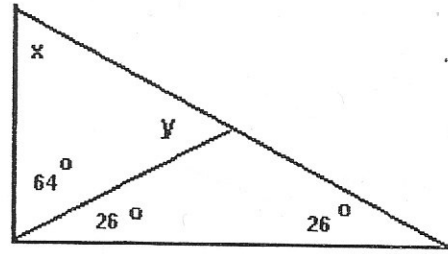
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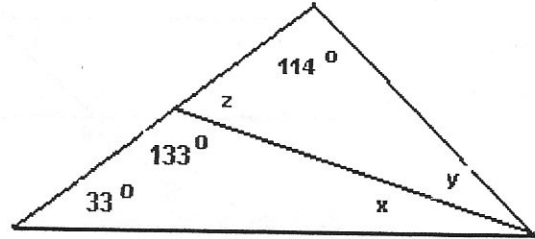
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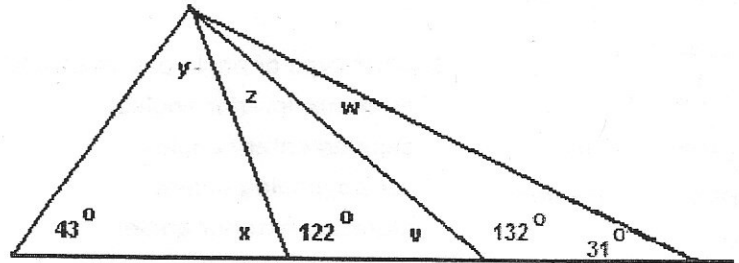
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Test - Intermediate Mathematics

Math Test For 8 Grade

The Linear Equation

Simultaneous Equations

Functions

Sequences

Logarithms

Trigonometry

Geometry

Volume of Prisms and Pyramids

Types of Angles

Types of Triangles

Volume Test

Volume and Surface Area

Geometry Basics Test

Lines Test

Angles between Parallel Lines

Area of Polygons

Classify Quadrilaterals

Quadrilaterals

Circle Test

Circles and Angles

Pythagorean Theorem

SAT

AdChoices

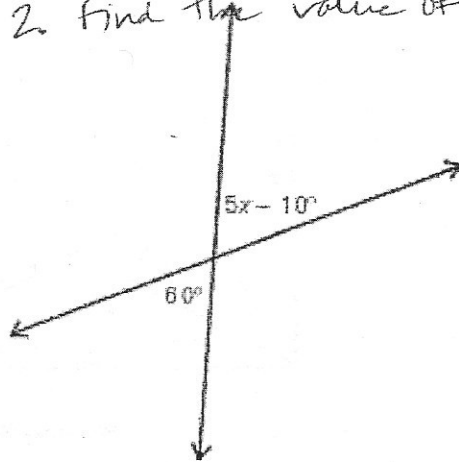
Practice Test

Practice Quiz

Test Answers

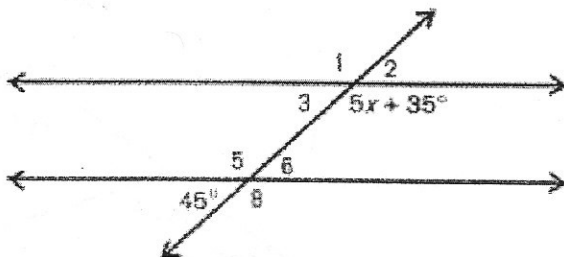
Test 1

2. Find the value of x in this diagram.



- 60° 26° 14° 10° 120°

Use the following diagram of parallel lines cut by a transversal to answer questions 3 through 9.



3. What is the measure of $\angle 8$?

- 45° 145° 55° 135° 155°

4. What is the measure of $\angle 3$?

- 45° 145° 135° 55° 155°

5. What is the measure of $\angle 6$?

- 45° 145° 135° 55° 155°

6. What type of angle pair is $\angle 1$ and $\angle 5$?

- alternate interior angles
 supplementary angles
 corresponding angles
 alternate exterior angles
 vertical angles

7. What is the measure of $\angle 2$?

- 55° 180° 80° 45° 135°

CONTINUE

3 Easy Steps

1. Click "Continue"
2. Run and Install
3. Open new Tab



Easy Converter

Use previous diagram

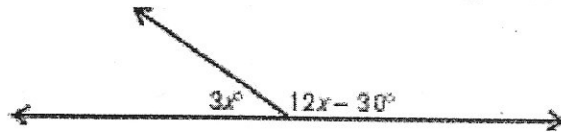
8. What type of angle pair is $\angle 1$ and $\angle 3$?

- alternate interior angles
- supplementary angles
- corresponding angles
- alternate exterior angles
- vertical angles

9. In the diagram, what is the value of x ?

- 21°
- 27°
- 4°
- 135°
- 20°

10. What are the values of the two angles shown in the figure below?



- 18° and 152°
- 30° and 150°
- 45° and 135°
- 42° and 138°
- 60° and 120°

11. What is the measure of the complement of 62° ?

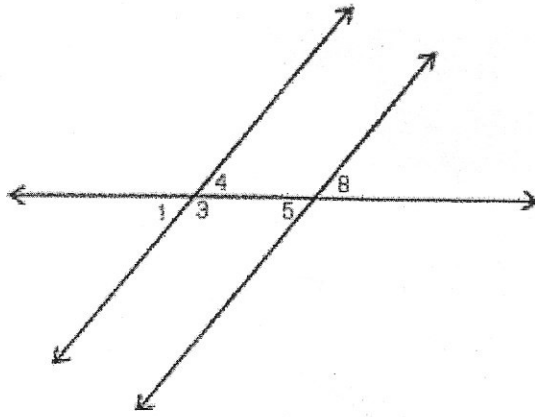
- 38°
- 28°
- 118°
- 128°
- 62°

12. Which of the following statements is ALWAYS TRUE when parallel lines are cut by a transversal?

- The sum of the degree measure of corresponding angles is 180° .
- The sum of the degree measure of complementary angles is 180° .
- The angles in a vertical pair are acute.
- Corresponding angles are supplementary.
- Corresponding angles are congruent.

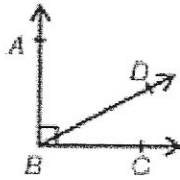
13. In the figure below of a parallel lines cut by a transversal, which angle is supplementary to $\angle 8$?

(13)



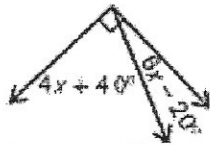
- $\angle 1$ $\angle 3$ $\angle 4$ $\angle 5$ none of the above

14. Using the figure below, which of the statements is true?



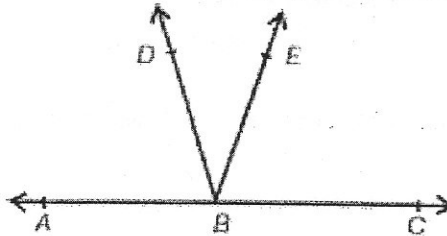
- $\angle ABD \cong \angle DBC$
 $\angle ABD$ and $\angle ABC$ are adjacent angles.
 $\angle ABD$ and $\angle DBC$ are complementary.
 $\angle DBC$ is half of the measure of $\angle ABC$.
 All of the above are true.

15. What is the value of x ?



- 7° 10° 9° 68° 22°

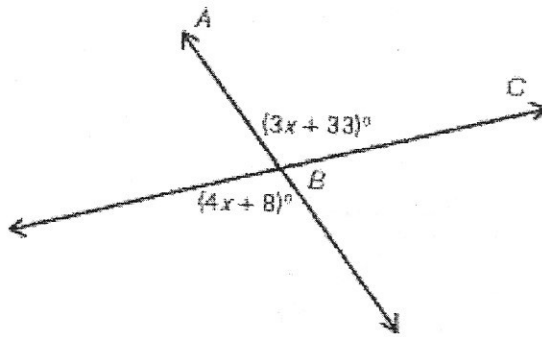
16. Use the following figure to determine which statements are true.



- $\angle ABD$ and $\angle DBC$ are a linear pair.
 $\angle ABE$ and $\angle EBC$ are adjacent.
 $\angle DBE$ and $\angle EBC$ are adjacent.
 $\angle EBC$ and $\angle EBA$ are a linear pair.
 All of the above are true.

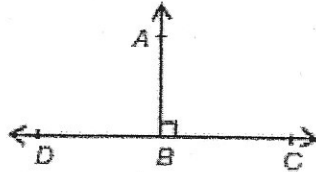
17. What is the measure of $\angle ABC$?

(17)



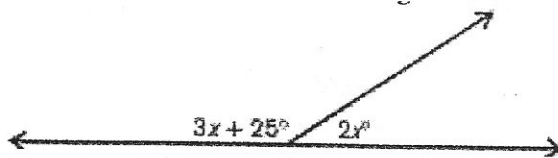
- 25° 75° 108° 150° 100°

18. Which of the following statements is true about the figure?



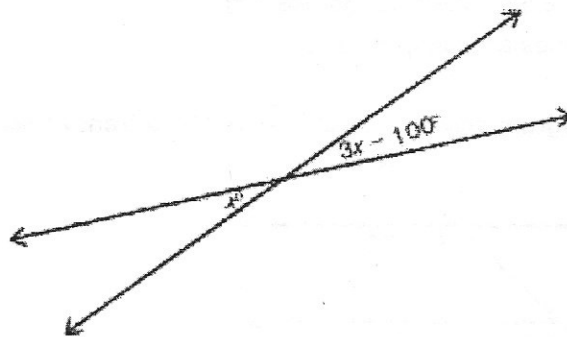
- $\angle DBC$ measures 180° .
 $\angle BAC$ is a right angle.
 $\angle CBA$ and $\angle ABD$ are supplementary.
 choices a and c.
 All of the above are true.

19. What are the values of the two angles?



- 31° and 159° 62° and 118° 28° and 62° 31° and 49° 31° and 69°

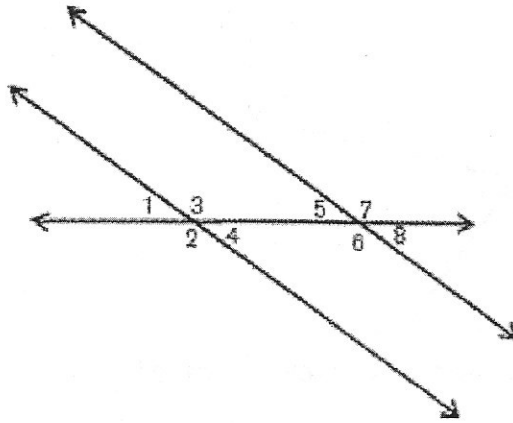
20. What is the value of x in the figure below?



- 150° 50° 100° 130° 25°

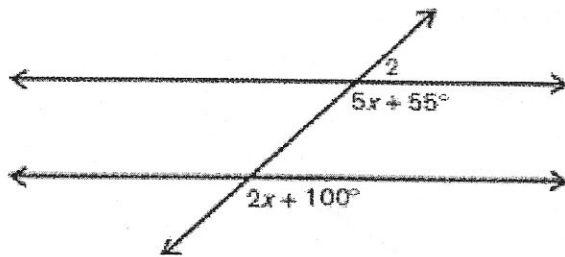
21. In the diagram of parallel lines cut by a transversal, shown below, which of the following statements is false?

(21)



- $\angle 3$ and $\angle 4$ are vertical angles.
- $\angle 5$ and $\angle 8$ are corresponding angles.
- $\angle 3$ and $\angle 5$ are alternate interior angles.
- $\angle 2$ and $\angle 8$ are alternate exterior angles.
- All of the above are false.

22. The following diagram shows parallel lines cut by a transversal. What is the measure of $\angle 2$?

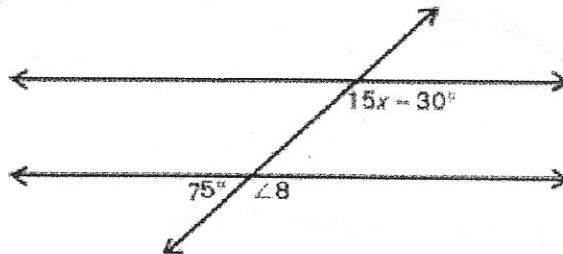


- 80°
- 100°
- 20°
- 160°
- 50°

23. Which of the statements below is ALWAYS TRUE?

- Supplementary angles are both obtuse angles.
- Complementary angles are both acute angles.
- At least one of the angles in a supplementary pair is obtuse.
- Alternate exterior angles are both obtuse angles.
- Any two acute angles are complementary.

24. The following diagram shows parallel lines cut by a transversal. What is the value of x ?



- 9°
- 75°
- 115°
- 3°
- 5°

25. Two angles are a linear pair. Their measures are represented by $x+10$, and $3x+10$. What are the measures of the angles?

- 40° and 40°
- 40° and 140°
- 50° and 130°
- 60° and 120°
- 90° and 90°