ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

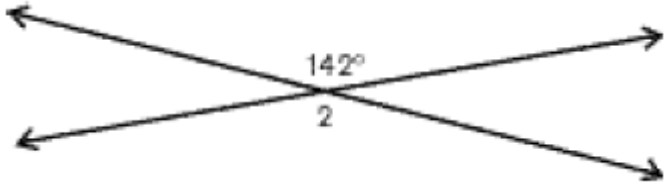
Sub: Algebra and Geometry **Class: 7** **Date: 15.02.21**

Duration: 40 min **Worksheet Solution 10** **Full Marks: 15**

LINES AND ANGLES

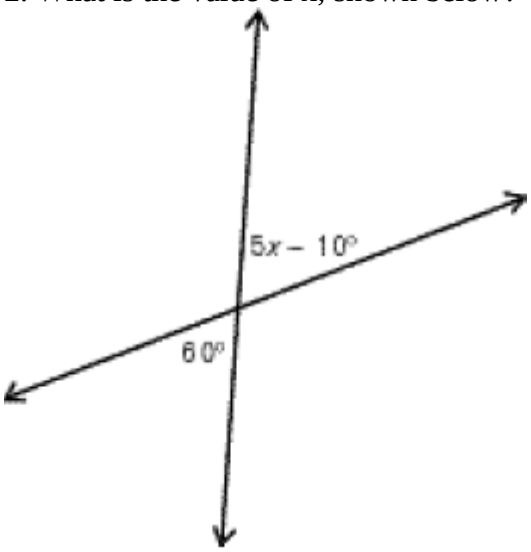
Choose the correct option:

1. In the following figure of two intersecting lines, what is the measure of ∠2?



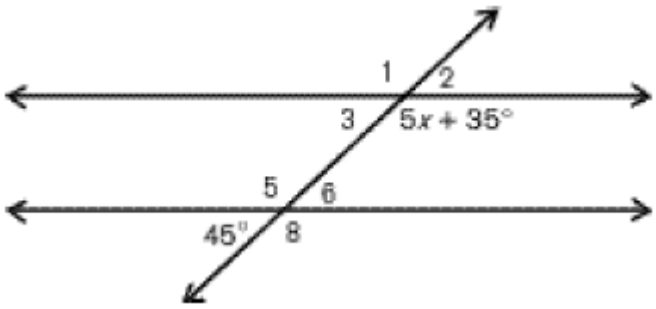
a. 38°
b. 71°
c. 142°
d. 42°

2. What is the value of x, shown below?



a. 60°
b. 26°
c. 14°
d. 10°

Use the following diagram of parallel lines cut by a transversal to answer questions 3 through 7.



3. What is the measure of ∠8?
   a. 45°
   b. 55°
   c. 135°
   d. 155°

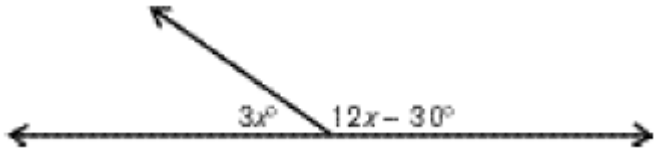
4. What is the measure of ∠3?
   a. 45°
   b. 135°
   c. 55°
   d. 155°

5. What is the measure of ∠6?
   a. 45°
   b. 135°
   c. 55°
   d. 155°

6. What is the measure of ∠2?
   a. 55°
   b. 180°
   c. 45°
   d. 135°

7. In the diagram, what is the value of x?
   a. 21°
   b. 27°
   c. 135°
   d. 20°

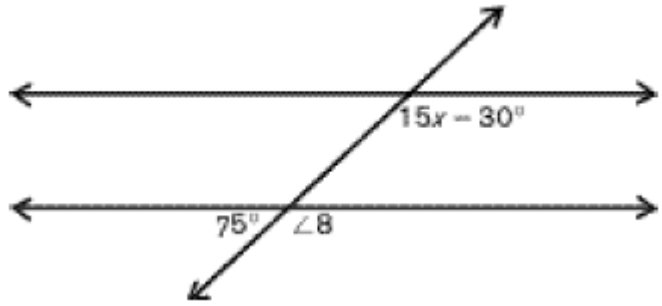
8. What are the values of the two angles shown in the figure below?



   a. 30° and 150°
   b. 45° and 135°
   c. 42° and 138°
   d. 60° and 120°

9. What is the measure of the complement of 62°?
   a. 38°
   b. 28°
   c. 118°
   d. 128°

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

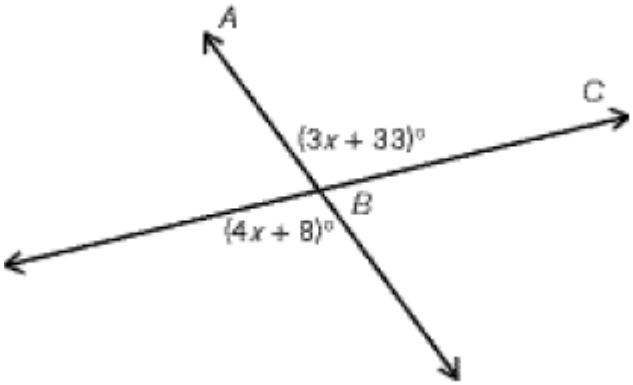


a. 9°
b. 7°
c. 3°
d. 5°

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

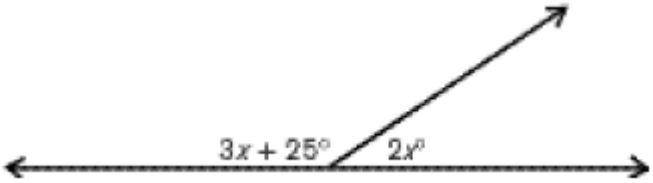
a. 40° and 140°
b. 50° and 130°
c. 60° and 120°
d. 90° and 90°

12. What is the measure of ∠ABC?



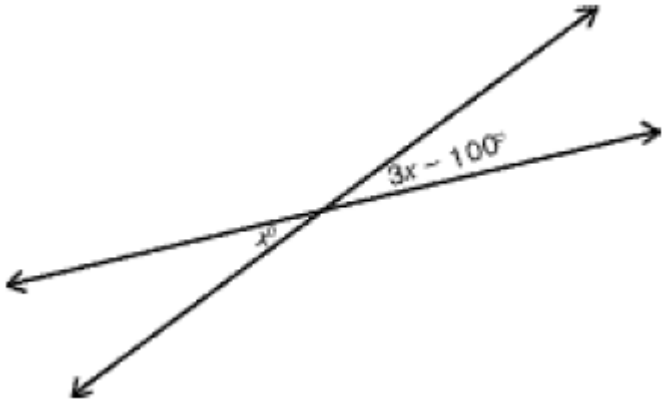
a. 75°
b. 108°
c. 150°
d. 100°

13. What are the values of the two angles?



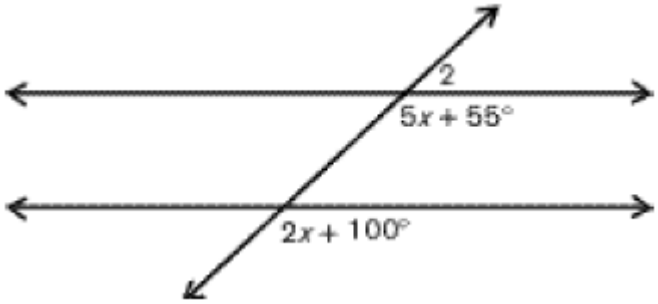
a. 31° and 159°
b. 62° and 128°
c. 28° and 62°
d. 31° and 49°

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



a. 150°
b. 50°
c. 100°
d. 25°

15. The following diagram shows parallel lines cut by a transversal. What is the measure of ∠2?



a. 80°
b. 100°
c. 20°
d. 50°