



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

Sub: Algebra and Geometry

Class: 7

Date: 15.02.21

Duration: 40 min

Worksheet 10

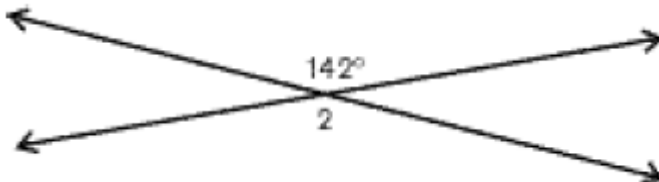
Full Marks: 15

LINES AND ANGLES



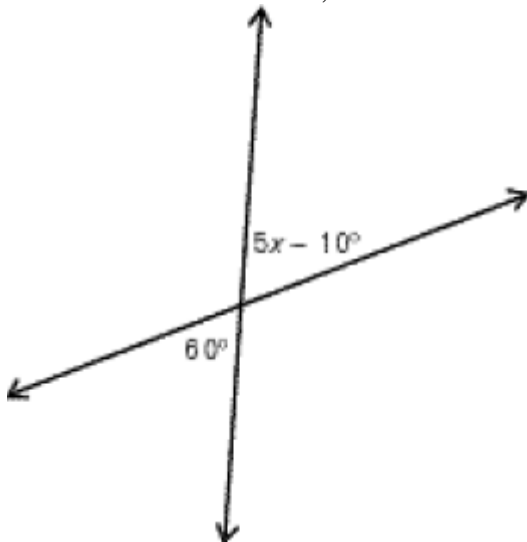
Choose the correct option:

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



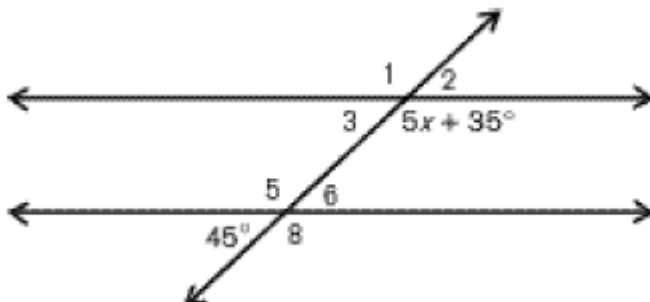
- a. 38°
- b. 71°
- c. 142°
- d. 42°

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 $\angle 8$?

- a. 45°
- b. 55°
- c. 135°
- d. 155°

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

- a. 45°
- b. 135°
- c. 55°
- d. 155°

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

- a. 45°
- b. 135°
- c. 55°
- d. 155°

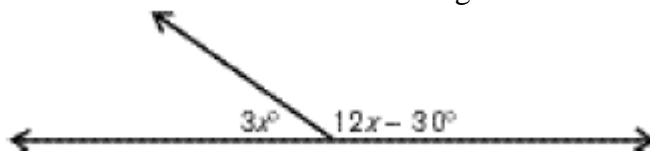
6. What is the measure of $\angle 2$?

- 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?

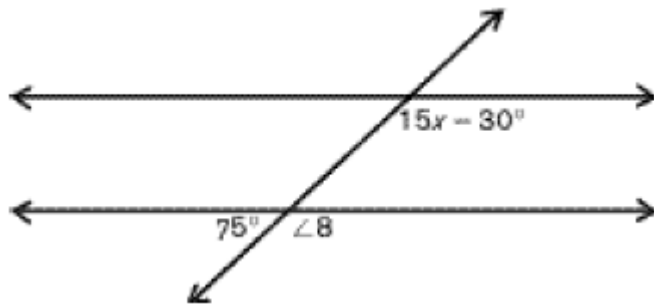


- a. 30° and 150°
- b. 45° and 135°
- c. 42° and 138°
- d. 60° and 120°

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 ?

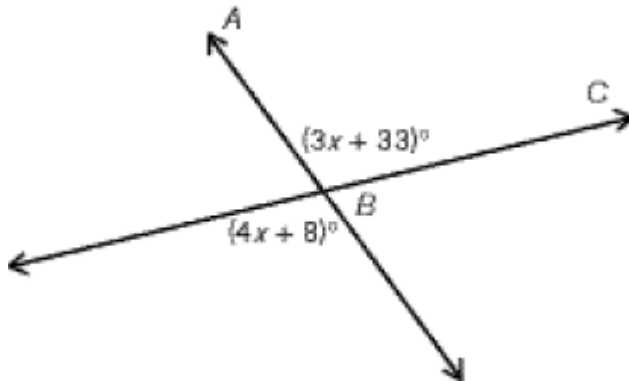


- a. 9°
- b. 7°
- c. 3°
- d. 5°

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

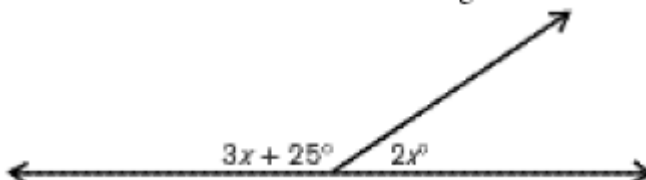
- a. 40° and 140°
- b. 50° and 130°
- c. 60° and 120°
- d. 90° and 90°

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



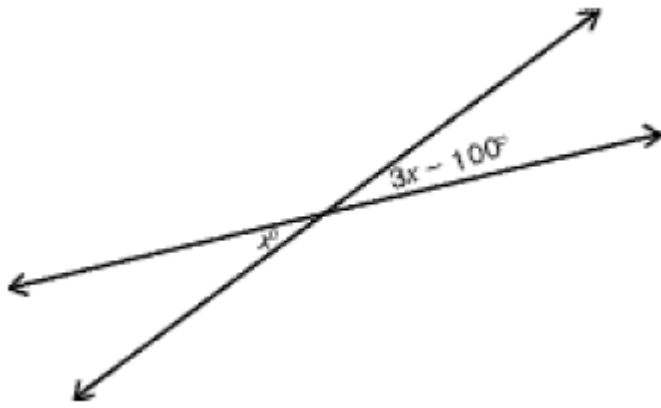
- a. 75°
- b. 108°
- c. 150°
- d. 100°

13. What are the values of the two angles?



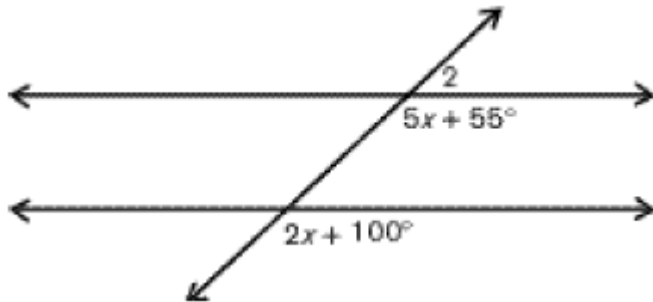
- a. 31° and 159°
- b. 62° and 128°
- c. 28° and 62°
- d. 31° and 49°

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 $\angle 2$?



- a. 80°
- b. 100°
- c. 20°
- d. 50°