



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Algebra and Geometry

Class: 7

Date: 13.06.20

Duration: 40 min

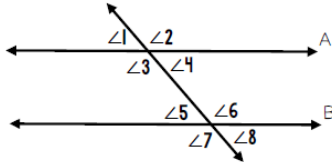
Worksheet 31

Full Marks: 15

LINES AND ANGLES

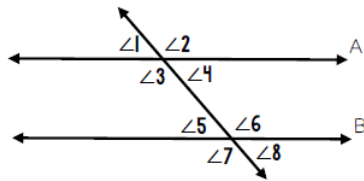
Choose the Correct options:

1. Which of the following is NOT an example of supplementary angles?



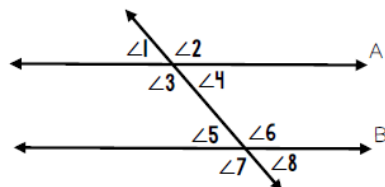
- (a) $\angle 7$ and $\angle 8$
- (b) $\angle 2$ and $\angle 3$
- (c) $\angle 1$ and $\angle 7$
- (d) $\angle 6$ and $\angle 4$

2. If the $m\angle 7 = 115^\circ$, find the measure of $\angle 2$.



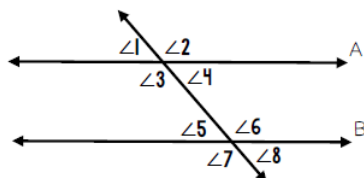
- (a) 115°
- (b) 65°
- (c) 180°
- (d) Cannot be determined

3. If the $m\angle 5 = 63^\circ$, find the measure of $\angle 3$



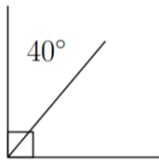
- (a) 63°
- (b) 117°
- (c) 180°
- (d) Cannot be determined

4. Find the value of x if the $m\angle 1 = 11x - 9^\circ$ and the $m\angle 5 = 7x + 9^\circ$



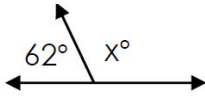
- (a) -4.5
- (b) 4.5
- (c) 1
- (d) 0

5. Find the missing angle.



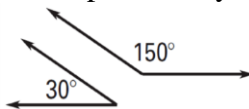
- (a) 60°
- (b) 70°
- (c) 50°
- (d) 140

6.



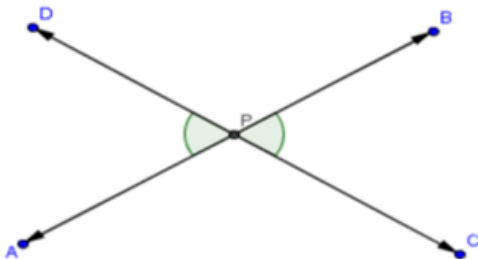
- (a) $x = 118$
- (b) $x = 108$
- (c) $x = 28$
- (d) $x = 58$

7. complementary, supplementary, or neither?



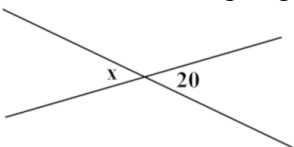
- (a) Complementary
- (b) Supplementary
- (c) Reflex
- (d) Neither

8. What angle pair is pictured?



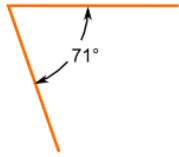
- (a) Alternate Interior Angles
- (b) Supplementary Angles
- (c) Vertical Angles
- (d) Corresponding Angles

9. Find the missing angle. Find x .



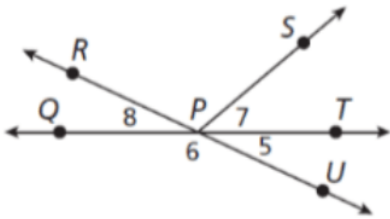
- (a) 20°
- (b) 70°
- (c) 160°
- (d) 180°

10. This is what kind of angle?



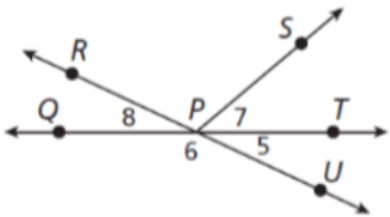
- (a) obtuse
- (b) right
- (c) straight
- (d) acute

11 $\angle 7$ and $\angle TPU$ are _____



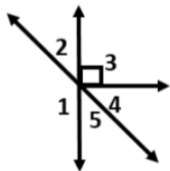
- (a) Complementary and Adjacent
- (b) Supplementary and Adjacent
- (c) Adjacent
- (d) Vertical

12. $\angle 7$ and $\angle 8$ are _____



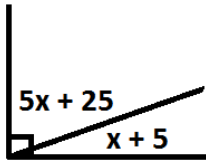
- (a) Vertical
- (b) Nothing
- (c) Adjacent
- (d) Supplementary

13. What angle is vertical to angle 2?



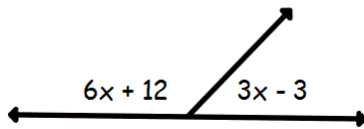
- (a) $\angle 4$
- (b) $\angle 1$
- (c) $\angle 2$
- (d) $\angle 5$

14. Solve for x



- (a) 5
- (b) 90
- (c) 25
- (d) 10

15. Find the value of x



- (a) -5
- (b) 28
- (c) 19
- (d) -3