Name:

Geometry 9 Review for PC #2 – Unit 3

Write the equation of the line that passes through the given points.

 1. (-2, 5) and (4, 8)
 2. (3, -8) and (1, 0)

Write the equation of the line that satisfies the given information.

3. Passing thru (5, -2) and parallel to 3x - y = 4

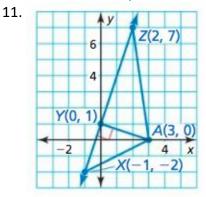
4. Passing thru (-6, 3) and parallel to $y = -\frac{1}{2}x + 3$

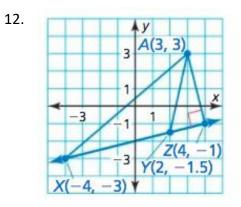
5. Passing thru (4, 7) and perpendicular to 2x - 3y = 6

6. Passing thru (-3, 1) and perpendicular to $y = -\frac{3}{4}x - 1$

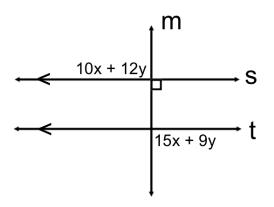
- 7. Vertical line that passes through (-8, 2)
- 8. Horizontal line that passes through (5, 6)
- 9. Vertical line that passes thru (5, -1)
- 10. Horizontal line that passes thru (-2, -4)

Find the distance from point A to \overleftarrow{XZ} .





13. Solve for x and y in the diagram.



Find the coordinates of point P along the directed line segment AB so that AP to PB is the given ratio.

18. A(8, 0) and B(3, -2) with ratio 1 to 4

19. A(-2, -4) and B(6, 1) with ratio 3 to 2

20. A(1, 6) and B(-2, -3) with ratio 5 to 1

21. Determine if the given lines are parallel, perpendicular or neither. Line A: (-9, 3), (-5, 7) Line B: (-11, 6), (-7, 2)

22. Given: $h \parallel k$ and $j \perp h$ Prove: $j \perp k$

