

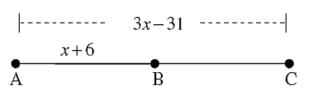
2) Match the equation on the left to the line description on the right.

- **B.)** $y = -\frac{1}{3}x + 5$
- **C.)** -x + 3y = 12
- **D.)** x 2y = -8

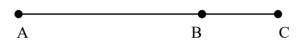
- 1. A line perpendicular to x = 5 2. A line parallel to y = $\frac{1}{3}$ x + 2
 - **3.** A line parallel to -4x + 8y = 9
 - 4. A line perpendicular to 9x 3y = 18
- 3) Write the equation of a line parallel to 2x 2y = 3 and passes through (7,4).
- 4) Write the equation of a line perpendicular to -6y 4x = 18 and passes through (2,6).
- 5) Identify if the following two lines are parallel, perpendicular or neither:

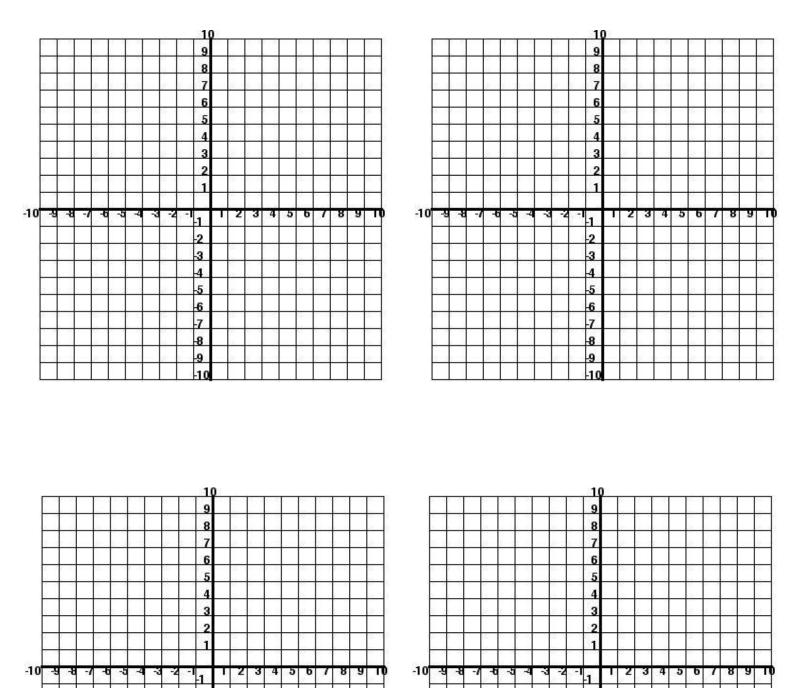
Line r: 2x - 8y = 16 and Line o: 4y = x - 9

- 6) SKETCHING PRACTICE: Draw plane B with line s intersecting it at point M. On plane B there are two lines that are perpendicular, name them line f and line p. There is a third line on plane B called \overrightarrow{AK} and it is perpendicular to line s at the intersection point M.
- 7) What are the undefined terms of geometry?
- 8) Find the length of the segment connecting (-3, 7) and (5, -1). Round to the nearest tenth.
- 9) What is distance between R(10,2) and S(-3,8)? Round to the nearest tenth.
- 10) Find the perimeter of ABCD.A(2,8), B(2,5), C(6,5), D(8,10). Round to the nearest tenth.
- 11) Point D partitions segment \overline{GK} in the ratio GD:DK = 3:4. Point G(1,9) and K(8, -5), find the coordinates of point D.
- 12) Point B lies on segment \overline{CA} and partitions in a ratio of 5:1. If C(-7, -3) and B(5, -7), what are the coordinates of A?
- 13) Find the midpoint of \overline{AF} if A is at the origin and F (9,6).
- 14) Is (-2,1) the midpoint of (-5,4) and (1,-1)?
- 15) The diameter of a circle has endpoints (8,7) and (-2,3). What are the coordinates of the center of the circle?
- 16) If B is the midpoint of \overline{AC} , solve for x.



17) If AB = 4x + 9, BC = 5x + 2, and AC = 56, solve for x, AB, and BC.







-2 -3 -4

-5 -6 -7

-8 -9

-10

-2 -3 -4

-5 -6

-7 -8 -9

-10