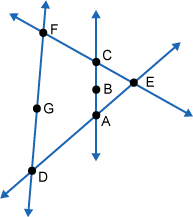
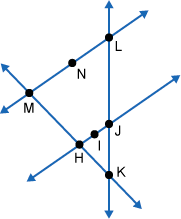
Find the following:

1.Given the figure below, find all sets of points that are collinear.  
  


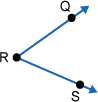
2.Given the figure below, find all sets of points that are collinear.  
  


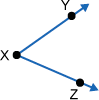
3.Refer to the figure in #1, label each line with correct notation.

4.Refer to the figure in #2, label each line with correct notation.

5.Rewrite the following using proper notation:   https://my.westcottcourses.com/images/homework/planegeometry/planegeometryhw1.1.5.gif

6.Rewrite the following using proper notation:   https://my.westcottcourses.com/images/homework/planegeometry/planegeometryhw1.1.6.gif

7.Rewrite the following using proper notation:   

8.Rewrite the following using proper notation:   

9.Rewrite the following using proper notation:   https://my.westcottcourses.com/images/homework/planegeometry/planegeometryhw1.1.9.gif

10.Rewrite the following using proper notation:   https://my.westcottcourses.com/images/homework/planegeometry/planegeometryhw1.1.10.gif

11.Rewrite the following using proper notation:   https://my.westcottcourses.com/images/homework/planegeometry/planegeometryhw1.1.11.gif

12.Rewrite the following using proper notation:   https://my.westcottcourses.com/images/homework/planegeometry/planegeometryhw1.1.12.gif

13.Rewrite DS   in geometric form.

14.Rewrite RZ in geometric form.

15.Rewrite the notation   l   in geometric form.

16.Rewrite the notation   n   in geometric form.

17.Rewrite the notation   https://my.westcottcourses.com/images/common/angleNOarc.gif DEF in geometric form.

18.Rewrite the notation   https://my.westcottcourses.com/images/common/angleNOarc.gif GHZ in geometric form.

19.Rewrite plane DEF in geometric form.

20.Rewrite plane RST in geometric form.

21.Rewrite plane p in geometric form.

22.Rewrite plane r in geometric form.

23.Arrange the three points A, B, and C so that they are collinear.

24.Arrange the three points X, Y, and Z so that they are collinear.

25.Arrange the four points A, B, C, and D so that they are coplanar.

26.Arrange the four points W, X, Y, and Z so that they are coplanar.

Find the distance between the following pairs of points:

27.(-4, 8) and (-4, 6)

28.(3, -8) and (1, -5)

29. (10, -1) and (-2, -9)

30. (-4, -3) and (-1, -5)

31.(5, 11) and (22, 32)

32. (-12, -4) and (-3, -2)

33. (-8, 3) and (-9, -4)

34. (4, 2) and (-5, 2)

35.Mary and Jan are both at the gas station at Hill and Elm.   From the station, Mary drives 20 miles east and Jan drives 12 miles south.  
  
Find the distance between Mary and Jan.

36.A balloon is released and flies straight up for 2 miles, and then the wind blows it west for 3 miles.  
  
Find the distance between the balloon and the site where it was released.

Find the following:

37.Given A(4, 8) and B(19, 28), find the point that divides the line segment AB two-fifths of the way from A to B.

38.Given A(5, 8) and B(17, 24), find the point that divides the line segment AB three-fourths of the way from A to B.

39.Given A(9, 4) and B(25, 20), find the point that divides the line segment AB three-eighths of the way from A to B.

40.Given A(3, 8) and B(24, 36), find the point that divides the line segment AB four-sevenths of the way from A to B.

41.Given A(10, 13) and B(26, 29), find the point that divides the line segment AB five-eighths of the way from A to B.

42.Given A(15, 6) and B(27, 30), find the point that divides the line segment AB two-thirds of the way from A to B.

Find the midpoint between the following pairs of points:

43.(-4, 8) and (-4, -6)

44.(-3, 5) and (8, -7)

45.(10, -1) and (-2, -9)

46.(-4, -3) and (-1, -5)

47.(5, 12) and (23, 32)

48.(-12, -4) and (-3, -2)

49.(-8, 3) and (-9, -4)

50.(4, 2) and (-5, 2)

Find the following:

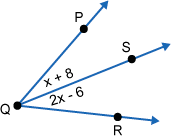
51.If the midpoint of two points is (5, 3), and one of the points is (1, 4), find the other point.

52.If the midpoint of two points is (2, 3), and one of the points is (1, 6), find the other point.

53.If the midpoint of two points is (-4, -5), and one of the points is (7, -3), find the other point.

54.If the midpoint of two points is (6, 10), and one of the points is (-3, -4), find the other point.

For problems 55 and 56,   let > be the mid-ray.   Find x:

55.

56.