

Chapter 6 Assignment - C

Find the distance between each pair of points. Express answers in exact form

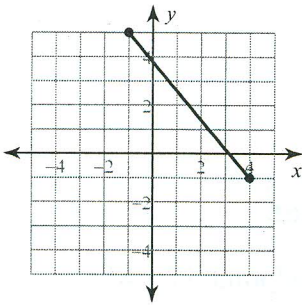
1)  $(-3, -6), (2, -6)$

2)  $(5, 2), (0, 3)$

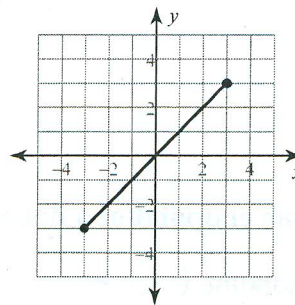
3)  $(1, -2), (-1, -7)$

4)  $(1, -1), (1, 1)$

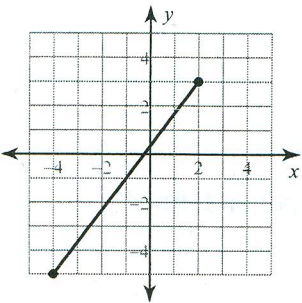
5)



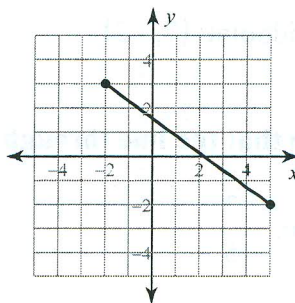
6)



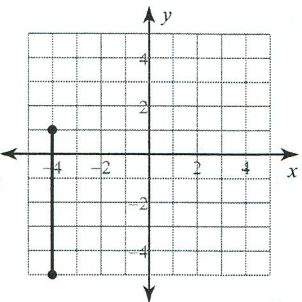
7)



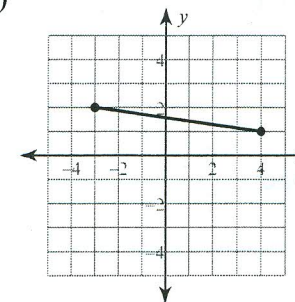
8)



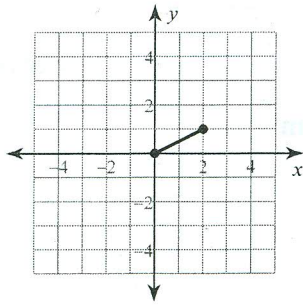
9)



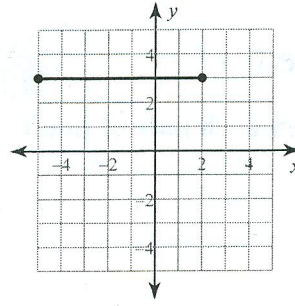
10)



11)



12)



**Find the midpoint of the line segment with the given endpoints.**

13)  $(-8, -2), (-10, -2)$

14)  $(5, -9), (-10, -9)$

15)  $(6, -9), (-6, 9)$

16)  $(4, 5), (8, -7)$

17)  $(-9, -8), (5, 4)$

**Given the midpoint and one endpoint of a line segment, find the other endpoint.**

18) Endpoint:  $(-5, -2)$ , midpoint:  $(-1, -9)$

19) Endpoint:  $(-1, -2)$ , midpoint:  $(7, -8)$

20) Endpoint:  $(-4, 4)$ , midpoint:  $(8, 10)$

21) Endpoint:  $(6, -7)$ , midpoint:  $(-8, -10)$

22) Endpoint:  $(-6, -8)$ , midpoint:  $(7, -2)$

**Find the value of x or y so that the line through the points has the given slope.**

23)  $(-7, 6)$  and  $(x, 0)$ ; slope:  $-\frac{2}{5}$

24)  $(x, -2)$  and  $(4, -3)$ ; slope: undefined

25)  $(-6, -1)$  and  $(-7, y)$ ; slope:  $-6$

26)  $(x, 4)$  and  $(-5, 9)$ ; slope:  $-5$

27)  $(7, y)$  and  $(-1, 3)$ ; slope:  $0$

28)  $(-4, 5)$  and  $(-7, y)$ ; slope:  $\frac{13}{3}$

29)  $(5, y)$  and  $(-2, -4)$ ; slope:  $-\frac{5}{7}$

30)  $(x, -9)$  and  $(-5, -5)$ ; slope:  $-\frac{4}{5}$

31)  $(-8, y)$  and  $(-5, -5)$ ; slope:  $-\frac{11}{3}$

32)  $(1, y)$  and  $(4, 5)$ ; slope:  $0$