

Find the distance between the given two points. Give exact answers

1. $(-2, 8), (6, 0)$	2. $(-3, -1), (7, 4)$
3. $(-5, 8), (1, 6)$	4. $(-2, 10), (10, -2)$
5. $(8, 3), (2, -1)$	6. $(-10, -15), (-4, -8)$

Find the Midpoint between the given two points.

7. $(3, -7), (-3, 1)$	8. $(2, 2), (6, 14)$
9. $(0, -6), (-4, 9)$	10. $(9, -2), (3, 6)$
11. $(-5, 8), (1, 6)$	12. $(-5, 4), (2, -4)$

13. The point $(1, -12)$ is the midpoint of segment \overline{AB} . If the coordinates of point A are $(3, 4)$, find the coordinates of point B.

14. If the distance between points A and B is $3\sqrt{2}$ units and point A is $(-2, 6)$, find the values of x if point B is $(x, 3)$.