

Sec 10-5, Part II

Written Exercises

Find the distance between each pair of points whose coordinates are given.

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| 13. $(-4, 2), (4, 17)$ | 14. $(5, -1), (11, 7)$ | 15. $(-3, 5), (2, 7)$ |
| 16. $(5, 4), (-3, 8)$ | 17. $(-8, -4), (-3, 8)$ | 18. $(2, 7), (10, -4)$ |
| 19. $(7, -9), (4, -3)$ | 20. $(9, -2), (3, -6)$ | 21. $(10, 8), (2, -3)$ |
| 22. $(11, -2), (-4, 5)$ | 23. $(-2, 5), \left(-\frac{1}{2}, 3\right)$ | 24. $(4, 2), \left(6, -\frac{2}{3}\right)$ |
| 25. $\left(\frac{2}{3}, -4\right), (3, -2)$ | 26. $\left(6, -\frac{2}{7}\right), (5, -1)$ | 27. $\left(\frac{4}{5}, -1\right), \left(2, -\frac{1}{2}\right)$ |

The coordinates of a pair of points are given in each exercise. Find two possible values for a if the points are the given distance apart.

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| 28. $(4, 7), (a, 3); d = 5$ | 29. $(3, a), (-4, 2); d = \sqrt{170}$ |
| 30. $(8, 1), (5, a); d = 5$ | 31. $(-3, a), (5, 2); d = 17$ |
| 32. $(a, 5), (-7, 3); d = \sqrt{29}$ | 33. $(5, 9), (a, -3); d = 13$ |
| 34. $(a, -4), (2, -3); d = \sqrt{65}$ | 35. $(-6, -5), (-3, a); d = \sqrt{13}$ |
| 36. $(4, -7), (7, a); d = \sqrt{34}$ | 37. $(-5, a), (4, -2); d = \sqrt{130}$ |