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Practice Assignment 3b

Algebra & Functions (Maths 201–016)

Distance and Midpoint

For the points A and B find (a) the distance between them and (b) the midpoint of the line segment connecting them.

Answers
1. (a) 5 (b) $(\frac{5}{2}, 3)$
2. (a) $2\sqrt{2}$ (b) (1,4)
3. (a) $2\sqrt{10}$ (b) $(-1,2)$
4. (a) 5 (b) $(\frac{3}{2}, -2)$
5 (a) $2\sqrt{13}$ (b) (-1.8)
$5. (a) 2\sqrt{15} (b) (-1, b)$
6. (a) $5\sqrt{2}$ (b) $\left(-\frac{5}{2},\frac{5}{2}\right)$
7. (a) $2\sqrt{5}$ (b) $(-1, -13)$
8. (a) $2\sqrt{13}$ (b) $(3, -14)$
9. (a) $5\sqrt{2}$ (b) $(\frac{7}{2}, \frac{5}{2})$

10. (a) 13 (b) $(0, \frac{1}{2})$