



Algebra & Functions (Maths 201–016)

Answers

1. $(2, -1)$
2. $(13, 11)$
3. (a) $\sqrt{50} = 5\sqrt{2}$, (b) $(\frac{1}{2}, 1)$
4. (a) $5\sqrt{5}$ (b) 6 (c) $\frac{\sqrt{2}}{2} = \frac{1}{\sqrt{2}}$
5. (a) $\frac{1}{5}$ (b) $\frac{1}{6}(5 + \sqrt{7})$ (c) $\sqrt{3}$
6. (a) $(3a + 1)(b - 2)$ (b) $2x^3(x + 5y^2)(x - 5y^2)$ (c) $2r^3(r + 3)(r^2 - 3r + 9)$
7. (a) $-2, 8$ (b) $6 \pm \sqrt{35}$
8. (a) *DNE* (b) $3/2$ (c) $-1 \pm \sqrt{7}$
9. (a) 7 (not -1) (b) $\frac{-5 \pm \sqrt{105}}{2}$ (c) -3 (not 1)