



Algebra & Functions (Maths 201-016)

Answers

1.  $(2, 2)$
2.  $(2, -1)$
3. (a)  $(\frac{1}{2}, 1)$ , (b)  $5\sqrt{2}$
4. (a)  $4\sqrt{3}$  (b) 21 (c)  $\frac{1}{3}(\sqrt{10} - 1)$
5. (a)  $5/3$  (b)  $\sqrt{6} + \sqrt{2}$  (c)  $5 - 2\sqrt{6}$
6. (a)  $(a - 1)(b + 2)$  (b)  $2x^4(x - 3)(x + 3)$  (c)  $3(a - 2b)(a^2 + 2ab + 4b^2)$
7. (a)  $-2, -8$  (b)  $-1, 7$
8. (a) *DNE* (b) 5 (c)  $\frac{1}{3}(-1 \pm \sqrt{13})$
9. (a)  $-4, 2$  (b) 7 ( $-1$  is not a solution! Check it out!) (c)  $\frac{7}{2}, -\frac{13}{2}$