

142 Exam 1A Solutions

1. b
2. c
3. b
4. c
5. d
6. b
7. a
8. d
9. Account A (\$545.32) is better than Account B (\$529.25)
10. $18x + 31 + 12\sqrt{x + 2}$
11. $x \geq -2 \quad x \neq \frac{7}{3}$
12. (a) $x = -\frac{1}{3}$ or -0.333
(b) $x = 4.080$
(c) $x = \frac{23}{3}$ or 7.667
13. (a) Exponential
(b) 20,540.612
(c) 19.4
14. (a) 4
(b) $y \leq 4.5$ or $(-\infty, 4.5)$
(c) $(-\infty, -2.5) \cup (2.1, 5)$
(d) approx. 4.5
15. $\alpha = -1 \quad \beta = 4$