

MAT124 COLLEGE ALGEBRA
(SUMMER II, 2009, DR. H. CHO)

Solutions for Chapter 2 Test (p 250-251)

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| <p>1. $x = -1$ 3. $x = 21/11$ 5. $x = -\sqrt{6}, \sqrt{6}$ 7. $x = -1, 3$</p> <p>9. $t = \frac{3}{4} \pm \frac{\sqrt{13}}{4}i$</p> <p>11. $x = -1, 13/6$ 13. $x = 5$ 15. $(-5, 3)$ 17. $[-7, 1]$ 19. $h = \frac{3V}{2\pi r^2}$ 21. $x^2 + 4x = 1; x^2 + 4x + 4 = 1 + 4; (x+2)^2 = 5; x = -2 \pm \sqrt{5}; \underline{-2-\sqrt{5}}, \underline{-2+\sqrt{5}}$</p> <p>22. Length: 60 m; width: 45m 24. \$1.80 26. $-5i$ 28. $10 + 5i$</p> <p>30. i 32. $-1/4, 3$</p> <p>34. (a) $(1, 9)$ (b) $x = 1$ (c) max: 9 (d) $(-\infty, 9]$ (e) increasing: $(-\infty, 1)$; decreasing: $(1, \infty)$ (f) Graph \rightarrow</p> | <p>2. $y = -5$ 4. $x = 1/2, -5$ 6. $x = -2i, 2i$ 8. $x = \frac{5 \pm \sqrt{13}}{2}$ 10. $x = 16$</p> <p>12. $x = 5$ 14. $y = -1/2, 2$ 16. $(-\infty, 2] \cup [4, \infty)$ 18. $(-\infty, -7) \cup (-3, \infty)$ 20. $n = \frac{R^2}{3p}$</p> <p>23. 3 km/h 25. $\sqrt{43}i$ 27. $3 - 5i$ 29. $\frac{1}{10} - \frac{1}{5}i$ 31. -3 33. $\frac{1 \pm \sqrt{57}}{4}$</p> |
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