

Algebra II Pre-AP Summer Assignment Key only

1. 6	2. 0
3. 16	4. $2x + 10$
5. a) x^{12} b) x^{12} c) x^{13} d) x^7 e) $6x^{12}$ f) $9x^6$	6. a) $5\sqrt{2}$ b) $3\sqrt{2}$ c) $4\sqrt{3}$ d) $2\sqrt{6}$ e) $5\sqrt{10}$ f) $10\sqrt{10}$
7. 9^3 or 729	8. a) b) $\frac{y^2}{3x^3}$
9. a) b) $2x^2 + 5x - 12$	10. $2x^2 + 8x - 11$
11. a) b) $x^2 + 10x + 25$ c) $x^2 + 2x + 1$ d) $9x^2 - 30x + 25$	12. $\frac{2}{3}$
13. $X = 4$ or $x = 1$	14. a) $x = 5$ or $x = -9$ b) Number line: dots at 5 and -9
15. $\frac{5}{6}$	16. $x = -33$
17. $(14, -3)$	18. $(2, -3)$
19. Graph – Must know how to graph	20. Graph – Must know how to graph
21. Graph – Must know how to graph	22. Graph – Must know how to graph
23. Perpendicular	24. $y = -\frac{5}{4}x + 10$
25. $(-12, 0)$ and $(0, 8)$	26. $y = \frac{1}{4}x - 4$
27. c	28. $y = -5x + 14$
29. $(a + 4)(a - 1)$	30. $(x - 4)(x - 5)$
31. ...	32. $(9a + 5)(9a - 5)$

33. ...	34. $x = 6$ or $x = -3$
35. $x = -7$ or $x = -4$	36. $\frac{3 \pm \sqrt{5}}{2}$
37. $\frac{11 \pm \sqrt{61}}{6}$	38. $\frac{-3 \pm \sqrt{41}}{16}$
39. $n = 7$	40. $11 ft$
41. $X = 5$	42. $20x^2 ft^2$
43. $\frac{7(z-2)}{4}$	44. $\frac{(x+4)(x-3)}{2}$

If you disagree with any of the answers, we will discuss it in class.