

Pre Cal Summer Assignment Answer Key

1. $y + 1 = -\frac{2}{3}(x - 2)$

3. $2x + 5y + 11 = 0$

5. $y = -\frac{1}{2}x + 2$

7. a. $x^2 - 2x - 24 + \frac{1}{x-2}$

8. a. $x^2 - 3x + 6 - \frac{7}{x+2}$

9. $3x^2(5x + 3)$

11. $(3k - 7)(k - 1)$

13. $(3x + 4)(x + 3)$

15. $(2 - x^3)(3 + x)$

17. $(2x^2 + 3)(4x^3 - 3)$

19. $(3x - 2)(x - 1)$

21. $2(4y - 3)(4y + 3)$

22. $x = -\frac{9}{5}$

24. $x = \frac{6}{19}$

26. $x = 47$

27. $[3, 7]$

29. $(-\infty, \frac{1}{3}]$

31. $x = 0, \frac{9}{10}$

33. $x = 9, 4$

35. $x = 16, -1$

2. $9x + 7y + 17 = 0$

4. $y = \frac{5}{6}x - \frac{14}{3}$

6. $4x + 3y + 1 = 0$

b. $2x + 3 + \frac{-8x+10}{x^2+2x-1}$

b. $x^4 + 3x^3 + 2x^2 + 2x + 2 + \frac{3}{x+5}$

10. $(7m - 1)(m + 1)$

12. $7u^2(2 + 5u^2)$

14. $(5x - 4)(x - 2)$

16. $(2x - 5)(x + 1)$

18. $(5x - 2)(3x - 1)$

20. $(x^2 - 3)(2 - x)$

23. $y = 3$

25. $p = \frac{2}{5}, -2$

28. $(-\infty, -\frac{7}{2})$

30. $(-6, 2)$

32. $x = \frac{1}{4}, -\frac{1}{2}$

34. $x = 12, 2$

36. $x = \pm \sqrt{\frac{2}{3}} i$

37. $x = -5 \pm 2\sqrt{3} i$

38. $x = \frac{3}{4} \pm \frac{\sqrt{6}}{4}$

39. $y = 2, -10$

40. $x = -4 \pm \sqrt{6}$

41. $x = \frac{5}{2} \pm 2i$

42. $x = -4 \pm \sqrt{\frac{7}{2}} i$

43. $x = -\frac{3}{2} \pm \frac{\sqrt{105}}{6}$

44. $x = \frac{1}{5} \pm \frac{\sqrt{19}}{5} i$

45. $x = \frac{3}{4}, -\frac{2}{3}$

46. $\frac{6+5x}{x}$

47. $\frac{x^2+2x}{(x-5)(x+5)}$

48. $\frac{4x^2+10x+25}{(x+2)(x-5)}$

49. $\frac{x}{15}$

50. $\frac{x+3}{3x-1}$

51. 2

52. $3 + 10i$

53. $-25 + 20i$

54. $-62 + 11i$

55. $\frac{15}{13} + \frac{3}{13} i$

56. $4xy^4\sqrt{3}$

57. $30\sqrt{6}$

58. $-\sqrt{3} + 19\sqrt{2} i$

59. $\frac{48}{29} - \frac{8\sqrt{7}}{29}$

60. $\frac{\sqrt{14}}{7}$

61. $a + 5$

62. $x^3 + 4$

63. $x^2 + x + 1$

64. 9

65. $x + 6$

66. $x^5 - 2x^3 + x^2 - 2$

67. $x^2 + 6x + 7$

$$68. \left[-\frac{2}{3}, \infty\right)$$

$$70. \left(-\infty, \frac{5}{2}\right]$$

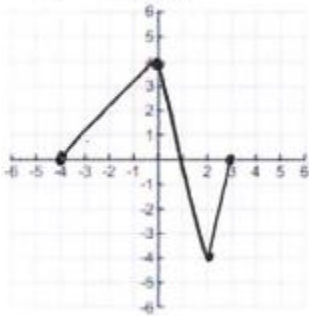
$$72. (-\infty, \infty)$$

$$69. (4, \infty)$$

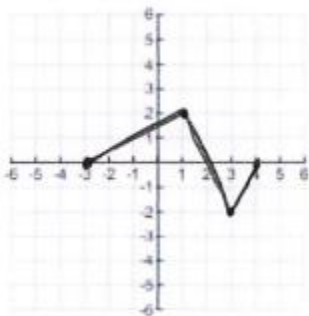
$$71. (-\infty, -5) \cup (-5, 5) \cup (5, \infty)$$

$$73. (-\infty, -2) \cup (-2, 2) \cup (2, \infty)$$

$$74. y = 2f(x)$$



$$75. y = f(x - 1)$$



$$76. y = 2f(x - 2) + 1$$

