

ANSWERS

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|-----------------------|---|---------------------------|
| 1. 2 | 2. $n(B-A)$ | 3. 1 |
| 4. 2^5 | 5. $x \in Y$ | 6. 2 |
| 7. 0 | 8. $\{1\}$ | 9. 2^3 |
| 10. 2^{12} | 11. 3 | 12. R |
| 13. $[-9, 9]$ | 14. $ x+2 $ | 15. R |
| 16. $R - \{2\}$ | 17. 2.3 | 18. 1 |
| 19. 0 | 20. $\sin \frac{\pi}{6} + \tan \frac{\pi}{4}$ | 21. $\tan \pi = \sqrt{3}$ |
| 22. 1 | 23. -1 | 24. $\sqrt{3}/2$ |
| 25. 0 | 26. $\cos(\pi + x) = \cos x$ | 27. 1 |
| 28. $\sqrt{2} \cos x$ | 29. 1 | 30. $\pi/6$ |
| 31. $1/2$ | 32. $-i$ | 33. in |
| 34. i | 35. $\pi/6$ | 36. $1+5i$ |
| 37. $\frac{\pi}{2}$ | 38. $1/2$ | 39. $x < 2$ |
| 40. $x \geq 50$ | 41. $[8, \infty]$ | 42. $(2, 0)$ |
| 43. $(4, 1)$ | 44. $5!$ | 45. 100 |
| 46. $4!$ | 47. $5!$ | 48. $4!$ |
| 49. $396\sqrt{6}$ | 50. 5 | 51. 2 |
| 52. 2 | 53. 3 and 5 | 54. 2 |
| 55. 4 | 56. 8 | 57. $1/\sqrt{3}$ |
| 58. -2 | 59. $1/2$ | 60. 20 |
| 61. 0 | 62. 3 | 63. $a_1 b_2 = a_2 b_1$ |
| 64. $(3, 3)$ | 65. 4 | 66. 4 |
| 67. $4/5$ | 68. 16 | 69. $(\pm 3, 0)$ |
| 70. 0 | 71. $(2, 0, 3)$ | 72. $\sqrt{3}$ |
| 73. -1 | 74. na^{n-1} | 75. $1/4$ |

$$76. \lim_{x \rightarrow 0} \frac{\cos x}{x}$$

$$79. -1/x^2$$

$$82. 2$$

$$85. -1$$

$$88. \sqrt{\frac{1}{n} \sum_{i=1}^n (x_i - \bar{x})^2}$$

$$91. 7$$

$$94. P(A \cup B) = P(A) + P(B)$$

$$97. D. 87$$

$$100. P(5)$$

$$77. 1/c$$

$$80. 2\cos 2x$$

$$83. 0$$

$$86. 2$$

$$89. 4$$

$$92. A \cap B = \emptyset$$

$$95. 2/3$$

$$98. 1/6$$

$$78. 5$$

$$81. 1$$

$$84. \sqrt{3}/2$$

$$87. 22/8$$

$$90. 6$$

$$93. 1/2$$

$$96. 1$$

$$99. 13/52$$

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