

1.  $A = \frac{C^2}{4\pi}$

2.  $\frac{-2x}{y^2}$

3.  $\frac{m}{3r^n}$

4.  $\frac{a^2b^2}{a+b}$

5.  $f^{-1}(x) = \frac{1-4x}{3}$

6. 7

7.  $\frac{-1}{8}$

8. (-3,2)

9.  $t = \frac{1}{3}$

10.  $14u^3 + 12u - 6$

11.  $16x^2 + 22x + 8$

12.  $2y(2x-3)(2x+3)(4x^2+9)$

13. 4

14. 4

15.  $\frac{2m-v}{m}$

16.  $\frac{2c-1}{c-2}$

17.  $-a-x$

18.  $z = -5$

19.  $x = \frac{6b-a}{15-b}$

20.  $r = \frac{s-a}{s-2}$

21.  $R = \frac{abV}{3b-a}$

22.  $t = \frac{9}{2}, -2$

23.  $s = 0, 2, -1$

24.  $m = 2, -2, -3$

25.  $p = \frac{-4}{3}, 1$

26. 93%

27.  $w(w+6) = 84$

28. \$579.00

29.  $C(x) = 35 + 0.12(x - 200)$

30.  $t = -2 \pm 2\sqrt{2}$

31.  $y = 0, \frac{7}{3}$

32.  $z = 2 \pm i\sqrt{2}$

33.  $x = 3$

34.  $x = 3$

35.  $r \geq -1$

36.  $\frac{35}{4}$

37.  $\frac{25}{2}$

38.  $(-\infty, -4]$  or  $[3, \infty)$

39.  $(-\infty, \frac{4}{5}]$

41.  $(\frac{-1}{2}, 0), (-6, 0), (0, 6)$

42.  $y = |x| + 2$

43.  $\sqrt{65}$

44.  $(\frac{3}{2}, 5)$

54.  $t = \frac{-3}{2}$

45.  $y > 0$

57.  $\log_5 a = b$

46.  $2y - 3x + 14 = 0$

58.  $\log\left(\frac{\sqrt{xy^4}}{z^2}\right)$

47.  $f(-4) = \frac{-7}{4}$

59.  $t = \frac{3}{4}$

48.  $f(b+2) = -3b - 4$

60.  $r = \frac{-\ln 3}{2}$

49.  $\{x | x \neq 4, -3\}$

61.  $y = \frac{9}{8}$

50.  $h(3) = -5$

62.  $x = \frac{1}{10}, y = \frac{-2}{15}$

51. Domain  $[-3, 4]$   
Range  $[-2, 2]$

63.  $-2 < x < 2$

52.  $(5, -5)$

64.  $a = \sqrt{64 - m^2}$

53.  $g(f(-2)) = -1$

65.  $\frac{B}{\sqrt{B^2 + 1}}$

66.  $y = \cos\left(\frac{\pi x}{2}\right)$

67.  $-\sin \theta$

68.  $-\frac{1}{2}$

