

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

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

29.  $\sqrt{65}$

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

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

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

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

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

31.  $m = \frac{-5}{4}, b = 2$

4.  $\frac{2\sqrt{2}-2b}{2-b^2}$

18. 93%

32.  $2y - 3x + 14 = 0$

5. 7

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

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

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

20. \$579

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

7.  $-9\sqrt{2}$

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

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

8.  $14u^3 + 12u - 6$

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

36. (6,5)

9.  $16x^2 + 22x + 8$

23.  $-4\sqrt{3}$

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

10.  $2y(2x-3)(2x+3)(4x^2+9)$

24.  $r \geq -1$

39.  $\log a = b$

11.  $\frac{z-3}{12}$

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

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

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

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

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

13.  $z = -5$

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

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

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

28.  $y = |x| + 2$

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

38.

