

Chapter 9b Review – SOLUTIONS

1. $a - 3; a \neq -6$
2. $\frac{x+2}{x-4}; x \neq -7, x \neq 4$
3. $\frac{3b^2}{64a}, a \neq 0, b \neq 0$
4. $\frac{a^2 - 5a}{a - 1}, a \neq -3, 0, 1$
5. $\frac{(x+2)(x-10)}{2x+1}; x \neq -3, -\frac{1}{2}, 1$
6. $\frac{(w+2)(w+2)}{w-5}, w \neq -1, 5, -2$
7. $\frac{(x-4)}{(x+2)}; x \neq -5, -3, -2, 3, 4$
8. $(x+4)(x-3)(x+5)$
9. $(x-5)(x-6)(x-4)$
10. $\frac{7c-27}{(c-4)(c+4)}$
11. $\frac{w-11}{w-4}$
12. $\frac{2c^2-20c+54}{(c-1)(c-7)}$
13. $\frac{2}{5}$
14. $\frac{x}{(x+2)(2-5x)}$ or $\frac{x}{-5x^2 - 8x + 4}$
15. $\frac{d+5}{(d+2)(d+8)}$
16. $\frac{3x^2(y+4)}{7y}$ or $\frac{3x^2y+12x^2}{7y}$
17. $x = 1$
18. $x = -\frac{12}{5}$ ($x = -2.4$)
19. $x = -\frac{25}{4}$ ($x = -6.25$)
20. $d = -\frac{17}{30}$
21. 234 ohms
22. $\frac{1}{3} + \frac{1}{7} = \frac{1}{x}; 2.1$ hours
23. About 11.6 hours
24. 8.75 mph downstream, 3.75 mph upstream
25. You are biking at 20 mph, and your friend is walking at 5mph.