

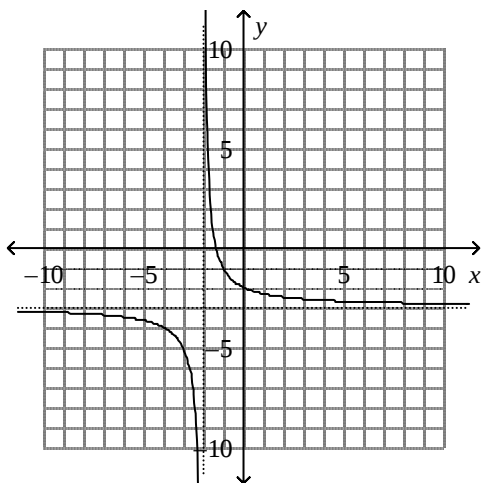
Algebra II 5th Six Weeks Exam Review Solutions

Calculator Section

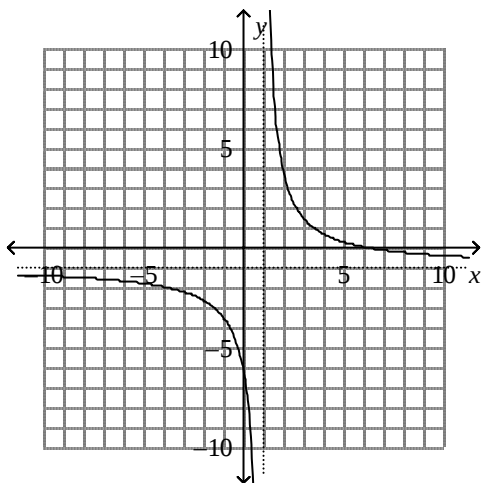
1. inverse variation; $y = \frac{30}{x}$
2. inverse variation; $y = \frac{60}{x}$
3. $y = \frac{5x}{z}$; 20
4. $y = \frac{6x}{z}$; 6
5. $\frac{p-8}{p-7}$; $p \neq 6, p \neq 7$
6. $\frac{n-4}{n+2}$; $n \neq 8, n \neq -2$
7. $\frac{y(y+3)}{12(y+4)}$
8. $\frac{x^2+2x}{x+3}$, $x \neq 3, 0, -3$
9. $\frac{a}{(a-3)^2}$
10. $\frac{(t-2)(t+3)}{t-1}$, $t \neq 4, 1$
11. $\frac{(x-4)^2}{(x+3)(x+1)}$; $x \neq -4, -3, -2, -1, 4$
12. $\frac{w+10}{(w-8)(w+8)}$
13. $\frac{2t-12}{(t-10)(t+10)}$
14. $\frac{5x^2+6x+12}{(x-3)(x+2)^2}$
15. $\frac{b-10}{b-1}$
16. $\frac{11}{7}$
17. $\frac{4x}{3x^2+10x+3}$
18. $\frac{10}{3}$
19. $\frac{27}{7}$
20. $\frac{46}{45}$
21. $-\frac{11}{20}$
22. $y = 373\left(\frac{1}{2}\right)^{\frac{1}{84}x}$; 321.516 kg
23. \$705.78
24. $32^{\frac{3}{5}} = 8$
25. $5^{-3} = \frac{1}{125}$
26. 499
27. $\frac{7}{8}$
28. 0.293
29. -0.046

Non-Calculator Section

30.



31.



32. $x = -9, x = -7$

33. $x = 1, x = -7$

34. asymptote: $x = -4$ and hole: $x = 2$

35. asymptote: $x = -4$ and hole: $x = -3$

36. $y = \frac{6}{7}$

37. $y = 0$

38. $y = 0$

39.

