$$f\left(x\right)=x^{2}-3 g\left(x\right)=\frac{1}{x}+4 h\left(x\right)= \sqrt{x^{2}-9 } k\left(x\right)= \left|2x-7\right|$$

1. Find f(-3)+g(5)
2. Find k(g(-3))
3. Find g(f(5))
4. Find f(g(x))
5. Find g(f(x))
6. Find h(a+3)
7. Describe the domain of f, g, h, and k
8. Describe how the graph of $y=x^{2}$was transformed to obtain the graph of f
9. Describe how the graph of $y=\frac{1}{x}$ was transformed to obtain the graph of g
10. Describe how the graph of $y=\sqrt{x}$ was transformed to obtain the graph of h
11. Describe how the graph of $y=\left|x\right|$ was transformed to obtain the graph of k
12. Graph each of the functions f, g, h, k. Tell where each graph is
13. Increasing
14. Decreasing
15. Do any of the graphs have a maximum or minimum point? If so, which ones?
16. Find f(-x), g(-x), h(-x), k(-x)
17. Find $f^{-1}\left(x\right),g^{-1}\left(x\right), h^{-1}(x)$

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