

Sketch the graph, name of the graph, state the domain, range, and transformations.

1. $f(x) = x^2 + 1$

2. $f(x) = (x-1)^2 + 6$

3. $f(x) = \sqrt{x} + 3$

4. $f(x) = \frac{1}{x^2}$

5. $f(x) = -|x| - 2$

6. $f(x) = -\sqrt{x-2} + 1$

7. $f(x) = -\frac{1}{x} - 2$

8. $f(x) = \frac{1}{(x+3)^2} + 2$

$$9. f(x) = \frac{1}{x+1} - 3$$

$$10. f(x) = -2\sqrt[3]{x} - 4$$

$$11. f(x) = -\frac{1}{x-2} + 4$$

$$12. f(x) = 2(x+1)^2 - 2$$

$$13. f(x) = \sqrt[3]{x+1} - 3$$

$$14. f(x) = -3(x-1)^3 + 1$$

$$15. f(x) = -\frac{1}{(x-3)^2} + 1$$

$$16. f(x) = -2|x-3| + 2$$