

Remembering the Parent Functions

Sketch the graph of each function.

1) $f(x) = (x + 2)^2 + 4$

3) $y = 2\sqrt[3]{x} - 2$

5) $f(x) = \frac{2}{x + 3} + 3$

7) $f(x) = 3^{x+2} - 2$

9) $f(x) = \log_3(x + 3) + 5$

2) $f(x) = (x - 1)^2 - 4$

4) $y = 4 + \sqrt{x}$

6) $f(x) = -\frac{3}{x - 1} - 2$

8) $f(x) = -\frac{1}{2} \cdot 2^{x+1} + 2$

10) $f(x) = \log_4(x + 6)$

Identify the center and radius of each. Then sketch the graph.

11) $(x + 2)^2 + (y - 4)^2 = 9$

12) $x^2 + (y + 2)^2 = 4$

Answers to Remembering the Parent Functions

