

Homework feedback p95#9,10

9. $y = x^2 + 4$ $D: (-\infty, \infty)$

10. $y = \frac{5}{x-3}$ $D: (-\infty, 3) \cup (3, \infty)$

Homework feedback p95#47-50

even/odd/Neither

47. $f(x) = 2x^4$ Even

$$f(1) = 2 \cdot 1^4 = 2$$

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

48. $g(x) = x^3$

$$g(2) = 2^3 = 8$$

$$g(-2) = (-2)^3 = -8$$

} odd

49. $f(x) = \sqrt{x^2 + 2}$

$$f(1) = \sqrt{1^2 + 2} = \sqrt{1+2} = \sqrt{3}$$

$$f(-1) = \sqrt{(-1)^2 + 2} = \sqrt{1+2} = \sqrt{3}$$

} even

50. $g(x) = \frac{3}{1+x^2}$ ← Even

$$g(1) = \frac{3}{1+1^2} = \frac{3}{1+1} = \frac{3}{2}$$

$$g(-1) = \frac{3}{1+(-1)^2} = \frac{3}{1+1} = \frac{3}{2}$$