

$$\textcircled{v} f(x) = x^{\frac{2}{3}} + 6$$

$$= (x^2)^{\frac{1}{3}} + 6$$

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

$$= (x^2)^{\frac{1}{3}} + 6$$

$$= x^{\frac{2}{3}} + 6 = f(x)$$

even function

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

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

$$= \frac{-x^3 + x}{x^2 + 1}$$

$$= -\frac{x^3 - x}{x^2 + 1}$$

$$= -f(x)$$

odd function

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