

مثالها

مثال) دامنه توابع زیر را محاسبه کنید.

$$1) f(x) = \frac{x + \sqrt{4 - x^2}}{[x] - 1}$$

$$2) f(x) = \frac{\sqrt{x}}{[x-1] - 3}$$

$$3) f(x) = \frac{1}{\sqrt{[x] - x}}$$

$$4) f(x) = \frac{1}{\sqrt{|x+1|} - 4}$$

$$5) f(x) = \frac{\sqrt{x}}{|x-2| - 3}$$

$$6) f(x) = \frac{\sqrt{4 - x^2}}{x - 1}$$

$$7) f(x) = \frac{3\sqrt{x-1}}{\sqrt{x} - 2}$$

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

$$9) f(x) = \frac{1 + \sqrt{4 - x^2}}{\sqrt{|x|} - x}$$

$$10) f(x) = \frac{x}{\sqrt[3]{x^3 - 8}}$$

$$11) f(x) = \frac{2}{\log x}$$

$$12) f(x) = \frac{\sqrt{[x] - 1}}{[\sin \pi x]}$$

$$13) y = \frac{\sqrt{x}}{\sqrt{x-1}}$$

$$14) y = \frac{\sqrt{\sqrt{(x+1)^2} - 1}}{\sqrt{|x+1|} - 1}$$

$$15) y = \frac{\sqrt{(x-1)^2}}{x-1}$$

$$16) y = \frac{\sqrt{x-1}}{\sqrt{x^2 - x}}$$

$$17) y = \frac{\sqrt{(x^2 - 3x + 2)^2}}{\sqrt{(x-2)^2}}$$