**مثال)** دامنه توابع زیر را محاسبه کنید.

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

2) $f(x) = \dfrac{x}{2 + [2x]}$

3) $f(x) = \dfrac{x-1}{[x] + [-x]}$

4) $f(x) = \dfrac{x + [x - [x]]}{x + [x] + [-x]}$

5) $f(x) = \dfrac{[x+1] + [-x]}{[1-x] + [x]}$

6) $f(x) = \dfrac{2x+1}{[1-x] + [x+1]} + \dfrac{[[x] - x]}{[x] + [-x]}$

7) $f(x) = \left[\dfrac{x^4 + 2x^2 + 2}{x^4 + 4x^2 + 5}\right] + \dfrac{x - [x]}{[x+1] + [1-x]}$

8) $f(x) = \dfrac{x - [x]}{[x] + [-x]}$

9) $f(x) = \sqrt{-\sin^2 \pi [x]}$

10) $f(x) = \sqrt{x - [x]}$

11) $f(x) = \sqrt{[x^2] - [x]}$

12) $f(x) = [\sin x]$

13) $f(x) = \sqrt{[x] - [x]^3}$

14) $f(x) = \sqrt{[x] - [x^2]}$

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

16) $y = \dfrac{[-x] + [x+2] - 2}{[x-2] + [-x] + 2}$

17) $y = \dfrac{[[x] - x]}{[1-x] + [x-1]}$

18) $y = \dfrac{[4-x] + [-x]}{[3-x] + [1-x]}$

19) $y = \dfrac{[-x] + [x+2]}{[x+2] + [-x] - 2}$

20) $y = \dfrac{x}{[1-x] + [x-1]}$

21) $y = \dfrac{2[x] - 2x}{x - [x]}$

22) $f(x) = \sqrt{[x]^2 - 5[x] + 6}$

23) $f(x) = \dfrac{1}{\sqrt{[x]^3 - [x]}}$

24) $f(x) = \dfrac{1}{\sqrt{x - [x]}}$

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

26) $f(x) = \dfrac{\sqrt{x[x]}}{\sqrt{[x]^2 - 3[x]}}$

27) $f(x) = \dfrac{x}{\sqrt{1 - [x]}}$

28) $f(x) = \sqrt{x^2 - [x^2]}$

29) $f(x) = \sqrt{[x^3] - x^3}$

30) $f(x) = \sqrt{x - [x] - \dfrac{1}{2}}$

31) $f(x) = \dfrac{1}{\sqrt{[2x] - 2[x]}}$

32) $f(x) = \sqrt{(-1)^{[x]}(x - [x])}$

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

34) $f(x) = \sqrt{[2x] - [x]}$

35) $f(x) = \dfrac{\sqrt{x - [x]}}{\sqrt{[x]^3 - 4[x]}}$

36) $f(x) = \dfrac{\sqrt{[x] - x}}{\sqrt{[x]^3 - 4[x]}}$

37) $f(x) = \dfrac{\sqrt{x - [x]}}{[x] + [-x]}$

38) $f(x) = \sqrt{\dfrac{[x] + [-x]}{[x] - [-x]}}$