

1) Find the domain of the function $f(x) = 9 - x^2$.			
<input type="checkbox"/> A $\{-3, 3\}$	<input type="checkbox"/> B $\mathbb{R} = (-\infty, \infty)$	<input type="checkbox"/> C $(-3, 3)$	<input type="checkbox"/> D $[-3, 3]$
2) Find the range of the function $f(x) = 9 - x^2$.			
<input type="checkbox"/> A $(-\infty, 9]$	<input type="checkbox"/> B $\mathbb{R} = (-\infty, \infty)$	<input type="checkbox"/> C $(-\infty, 9)$	<input type="checkbox"/> D $[9, \infty)$
3) Find the domain of the function $f(x) = 6 - 2x$.			
<input type="checkbox"/> A $\mathbb{R} = (-\infty, \infty)$	<input type="checkbox"/> B $\{3\}$	<input type="checkbox"/> C $(-\infty, 3]$	<input type="checkbox"/> D $[3, \infty)$
4) Find the range of the function $f(x) = 6 - 2x$.			
<input type="checkbox"/> A $(-\infty, 3]$	<input type="checkbox"/> B $\mathbb{R} = (-\infty, \infty)$	<input type="checkbox"/> C $[0, 3]$	<input type="checkbox"/> D $[3, \infty)$
5) Find the domain of the function $f(x) = x^2 - 2x - 3$.			
<input type="checkbox"/> A $\mathbb{R} = (-\infty, \infty)$	<input type="checkbox"/> B $\{-1, 3\}$	<input type="checkbox"/> C $(-1, 3)$	<input type="checkbox"/> D $[-1, 3]$
6) Find the domain of the function $f(x) = 1 + 2x^3 - x^5$.			
<input type="checkbox"/> A $\{-1, 2\}$	<input type="checkbox"/> B $\mathbb{R} = (-\infty, \infty)$	<input type="checkbox"/> C $(-2, 1)$	<input type="checkbox"/> D $[-1, 2]$
7) Find the domain of the function $f(x) = 5$.			
<input type="checkbox"/> A $\mathbb{R} = (-\infty, \infty)$	<input type="checkbox"/> B $\{5\}$	<input type="checkbox"/> C $(-\infty, 5]$	<input type="checkbox"/> D $[5, \infty)$
8) Find the range of the function $f(x) = 5$.			
<input type="checkbox"/> A $\mathbb{R} = (-\infty, \infty)$	<input type="checkbox"/> B $\{5\}$	<input type="checkbox"/> C $(-\infty, 5]$	<input type="checkbox"/> D $[5, \infty)$
9) Find the domain of the function $f(x) = x - 1 $.			
<input type="checkbox"/> A $\{1\}$	<input type="checkbox"/> B $(-\infty, 1)$	<input type="checkbox"/> C $(1, \infty)$	<input type="checkbox"/> D $\mathbb{R} = (-\infty, \infty)$
10) Find the domain of the function $f(x) = x + 5 $.			
<input type="checkbox"/> A $\{-5\}$	<input type="checkbox"/> B $\mathbb{R} = (-\infty, \infty)$	<input type="checkbox"/> C $(-5, \infty)$	<input type="checkbox"/> D $(-\infty, -5)$
11) Find the domain of the function $f(x) = x $.			
<input type="checkbox"/> A $\{0\}$	<input type="checkbox"/> B $(-\infty, 0)$	<input type="checkbox"/> C $\mathbb{R} = (-\infty, \infty)$	<input type="checkbox"/> D $(0, \infty)$
12) Find the range of the function $f(x) = x $.			
<input type="checkbox"/> A $(-\infty, 0]$	<input type="checkbox"/> B $\mathbb{R} = (-\infty, \infty)$	<input type="checkbox"/> C $(0, \infty)$	<input type="checkbox"/> D $[0, \infty)$
13) Find the domain of the function $f(x) = 3x - 6 $.			
<input type="checkbox"/> A $\{2\}$	<input type="checkbox"/> B $(-\infty, 3]$	<input type="checkbox"/> C $[3, \infty)$	<input type="checkbox"/> D $\mathbb{R} = (-\infty, \infty)$
14) Find the domain of the function $f(x) = 9 - 3x $.			
<input type="checkbox"/> A $\{3\}$	<input type="checkbox"/> B $\mathbb{R} = (-\infty, \infty)$	<input type="checkbox"/> C $(3, \infty)$	<input type="checkbox"/> D $(-\infty, 3)$

15) Find the domain of the function $f(x) = \frac{x+2}{x-3}$.

- [A] $(-\infty, \infty)$ [B] $\mathbb{R} \setminus \{3\}$ [C] $\mathbb{R} \setminus \{-2, 3\}$ [D] $(3, \infty)$

16) Find the domain of the function $f(x) = \frac{x-2}{x+3}$.

- [A] $(-\infty, \infty)$ [B] $(-\infty, 3)$ [C] $\mathbb{R} \setminus \{-3, 2\}$ [D] $\mathbb{R} \setminus \{-3\}$

17) Find the domain of the function $f(x) = \frac{x+2}{x^2 - 9}$.

- [A] $(-\infty, \infty)$ [B] $\mathbb{R} \setminus \{3\}$ [C] $\mathbb{R} \setminus \{-3, 3\}$ [D] $\mathbb{R} \setminus (-3, 3)$

18) Find the domain of the function $f(x) = \frac{x+2}{x^2 - 5x + 6}$.

- [A] $(-\infty, \infty)$ [B] $\mathbb{R} \setminus \{-3, -2\}$ [C] $\mathbb{R} \setminus \{2, 3\}$ [D] $\mathbb{R} \setminus (2, 3)$

19) Find the domain of the function $f(x) = \frac{x+2}{x^2 - x - 6}$.

- [A] $(-\infty, \infty)$ [B] $\mathbb{R} \setminus \{-3, 2\}$ [C] $\mathbb{R} \setminus \{-2, 3\}$ [D] $\mathbb{R} \setminus (-2, 3)$

20) Find the domain of the function $f(x) = \frac{x+2}{x^2 + 9}$.

- [A] $(-\infty, \infty)$ [B] $\mathbb{R} \setminus \{-9\}$ [C] $\mathbb{R} \setminus \{-3, 3\}$ [D] $\mathbb{R} \setminus (-3, 3)$

21) Find the domain of the function $f(x) = \sqrt[3]{x-3}$.

- [A] $\mathbb{R} = (-\infty, \infty)$ [B] $(-\infty, 3]$ [C] $[3, \infty)$ [D] $[-3, \infty)$

22) Find the domain of the function $f(x) = \sqrt{x-3}$.

- [A] $\mathbb{R} = (-\infty, \infty)$ [B] $(-\infty, 3]$ [C] $[3, \infty)$ [D] $[-3, \infty)$

23) Find the domain of the function $f(x) = \sqrt{3-x}$.

- [A] $\mathbb{R} = (-\infty, \infty)$ [B] $(-\infty, 3]$ [C] $[3, \infty)$ [D] $[-3, \infty)$

24) Find the domain of the function $f(x) = \sqrt{x+3}$.

- [A] $\mathbb{R} = (-\infty, \infty)$ [B] $(-\infty, -3]$ [C] $[3, \infty)$ [D] $[-3, \infty)$

25) Find the domain of the function $f(x) = \sqrt{-x}$.

- [A] $\mathbb{R} = (-\infty, \infty)$ [B] $(-\infty, 0]$ [C] $[0, \infty)$ [D] $(-\infty, 0)$

26) Find the range of the function $f(x) = \sqrt{-x}$.

- [A] $(-\infty, 0]$ [B] $\mathbb{R} = (-\infty, \infty)$ [C] $(-\infty, 0) \cup (0, \infty)$ [D] $[0, \infty)$

27) Find the domain of the function $f(x) = \sqrt{9-x^2}$.

- [A] $(-3, 3)$ [B] $[-3, 3]$ [C] $(-\infty, -3) \cup (3, \infty)$ [D] $(-\infty, -3] \cup [3, \infty)$

28) Find the domain of the function $f(x) = \frac{x+2}{\sqrt{x-3}}$.

- [A] $(-\infty, \infty)$ [B] $[-2, 3]$ [C] $(3, \infty)$ [D] $[3, \infty)$

29) Find the domain of the function $f(x) = \frac{x+2}{\sqrt{9-x^2}}$.

- [A] $(-3, 3)$ [B] $[-3, 3]$ [C] $(-\infty, -3) \cup (3, \infty)$ [D] $(-\infty, -3] \cup [3, \infty)$

30) Find the domain of the function $f(x) = \sqrt{x^2 - 9}$.

- [A] $(-3, 3)$ [B] $[-3, 3]$ [C] $(-\infty, -3) \cup (3, \infty)$ [D] $(-\infty, -3] \cup [3, \infty)$

31) Find the range of the function $f(x) = \sqrt{x^2 - 9}$.

- [A] $(-\infty, 0]$ [B] $\mathbb{R} = (-\infty, \infty)$ [C] $[9, \infty)$ [D] $[0, \infty)$

32) Find the domain of the function $f(x) = \frac{x+2}{\sqrt{x^2 - 9}}$.

- [A] $(-3, 3)$ [B] $[-3, 3]$ [C] $(-\infty, -3) \cup (3, \infty)$ [D] $(-\infty, -3] \cup [3, \infty)$

33) Find the domain of the function $f(x) = \sqrt[3]{9+x^2}$.

- [A] $(-\infty, \infty)$ [B] $[-3, 3]$ [C] $\{-3, 3\}$ [D] $(-\infty, -3] \cup [3, \infty)$

34) Find the domain of the function $f(x) = \sqrt[4]{x^2 - 25}$.

- [A] $(-5, 5)$ [B] $[-5, 5]$ [C] $(-\infty, -5] \cup [5, \infty)$ [D] $(-\infty, -5) \cup (5, \infty)$

35) Find the domain of the function $f(x) = \sqrt[6]{16-x^2}$.

- [A] $(-4, 4)$ [B] $[-4, 4]$ [C] $(-\infty, -4) \cup (4, \infty)$ [D] $(-\infty, -4] \cup [4, \infty)$

36) Find the range of the function $f(x) = \sqrt{16-x^2}$.

- [A] $(-\infty, 4]$ [B] $\mathbb{R} = (-\infty, \infty)$ [C] $[0, 4]$ [D] $[4, \infty)$

37) Find the domain of the function $f(x) = \frac{x+|x|}{x}$.

- [A] $(-\infty, 0) \cup (0, \infty)$ [B] \mathbb{R} [C] $(0, \infty)$ [D] $(-\infty, 0]$

38) Find the domain of the function $f(x) = \begin{cases} \frac{1}{x} & ; x < 0 \\ x & ; x \geq 0 \end{cases}$.

- [A] $(-\infty, 0) \cup (0, \infty)$ [B] \mathbb{R} [C] $(0, \infty)$ [D] $(-\infty, 0]$

39) Find the domain of the function $f(x) = \frac{2-\sqrt{x}}{\sqrt{x^2+1}}$.

- [A] $(-\infty, -1) \cup (1, \infty)$ [B] \mathbb{R} [C] $(0, \infty)$ [D] $[0, \infty)$

40)	Find the domain of the function $f(x) = \sqrt{x-1} + \sqrt{x+3}$.			
<input type="checkbox"/> A	$[-3, \infty)$	<input type="checkbox"/> B	\mathbb{R}	<input type="checkbox"/> C $[-3, 1]$
<input type="checkbox"/> D $[1, \infty)$				
41)	The function $f(x) = 3x^4 + x^2 + 1$ is			
<input type="checkbox"/> A	cubic	<input type="checkbox"/> B	quadratic	<input type="checkbox"/> C linear
<input type="checkbox"/> D polynomial				
42)	The function $f(x) = 5x^3 + x^2 + 7$ is			
<input type="checkbox"/> A	cubic	<input type="checkbox"/> B	quadratic	<input type="checkbox"/> C linear
<input type="checkbox"/> D power				
43)	The function $f(x) = -3x^2 + 7$ is			
<input type="checkbox"/> A	cubic	<input type="checkbox"/> B	quadratic	<input type="checkbox"/> C linear
<input type="checkbox"/> D power				
44)	The function $f(x) = 2x + 3$ is			
<input type="checkbox"/> A	cubic	<input type="checkbox"/> B	quadratic	<input type="checkbox"/> C linear
<input type="checkbox"/> D power				
45)	The function $f(x) = x^7$ is			
<input type="checkbox"/> A	cubic	<input type="checkbox"/> B	quadratic	<input type="checkbox"/> C linear
<input type="checkbox"/> D power				
46)	The function $f(x) = \frac{2x+3}{x^2-1}$ is			
<input type="checkbox"/> A	rational	<input type="checkbox"/> B	quadratic	<input type="checkbox"/> C linear
<input type="checkbox"/> D polynomial				
47)	The function $f(x) = \frac{x-3}{x+2}$ is			
<input type="checkbox"/> A	algebraic	<input type="checkbox"/> B	trigonometric	<input type="checkbox"/> C exponential
<input type="checkbox"/> D polynomial				
48)	The function $f(x) = \sin x$ is			
<input type="checkbox"/> A	algebraic	<input type="checkbox"/> B	trigonometric	<input type="checkbox"/> C exponential
<input type="checkbox"/> D polynomial				
49)	The function $f(x) = e^x$ is			
<input type="checkbox"/> A	algebraic	<input type="checkbox"/> B	trigonometric	<input type="checkbox"/> C natural exponential
<input type="checkbox"/> D polynomial				
50)	The function $f(x) = 3^x$ is			
<input type="checkbox"/> A	algebraic	<input type="checkbox"/> B	trigonometric	<input type="checkbox"/> C general exponential
<input type="checkbox"/> D polynomial				
51)	The function $f(x) = x^2 + \sqrt{x-2}$ is			
<input type="checkbox"/> A	algebraic	<input type="checkbox"/> B	trigonometric	<input type="checkbox"/> C exponential
<input type="checkbox"/> D polynomial				
52)	The function $f(x) = -3$ is			
<input type="checkbox"/> A	cubic	<input type="checkbox"/> B	quadratic	<input type="checkbox"/> C linear
<input type="checkbox"/> D constant				
53)	The function $f(x) = \log_3 x$ is			
<input type="checkbox"/> A	natural logarithmic	<input type="checkbox"/> B	trigonometric	<input type="checkbox"/> C general logarithmic
<input type="checkbox"/> D polynomial				
54)	The function $f(x) = \ln x$ is			
<input type="checkbox"/> A	natural logarithmic	<input type="checkbox"/> B	trigonometric	<input type="checkbox"/> C rational
<input type="checkbox"/> D polynomial				
55)	The function $f(x) = 3x^4 + x^2 + 1$ is			
<input type="checkbox"/> A	Even	<input type="checkbox"/> B	Odd	<input type="checkbox"/> C Even and odd
<input type="checkbox"/> D Neither even nor odd				

56)	The function $f(x) = 9 - x^2$ is	<input type="checkbox"/> A Even	<input type="checkbox"/> B Odd	<input type="checkbox"/> C Even and odd	<input type="checkbox"/> D Neither even nor odd
57)	The function $f(x) = x^5 - x$ is	<input type="checkbox"/> A Even	<input type="checkbox"/> B Odd	<input type="checkbox"/> C Even and odd	<input type="checkbox"/> D Neither even nor odd
58)	The function $f(x) = 2 - \sqrt[5]{x}$ is	<input type="checkbox"/> A Even	<input type="checkbox"/> B Odd	<input type="checkbox"/> C Even and odd	<input type="checkbox"/> D Neither even nor odd
59)	The function $f(x) = 3x + \frac{2}{\sqrt{x^2 + 9}}$ is	<input type="checkbox"/> A Even	<input type="checkbox"/> B Odd	<input type="checkbox"/> C Even and odd	<input type="checkbox"/> D Neither even nor odd
60)	The function $f(x) = \frac{3}{\sqrt{x^2 + 9}}$ is	<input type="checkbox"/> A Even	<input type="checkbox"/> B Odd	<input type="checkbox"/> C Even and odd	<input type="checkbox"/> D Neither even nor odd
61)	The function $f(x) = \sqrt{4 + x^2}$ is	<input type="checkbox"/> A Even	<input type="checkbox"/> B Odd	<input type="checkbox"/> C Even and odd	<input type="checkbox"/> D Neither even nor odd
62)	The function $f(x) = 3$ is	<input type="checkbox"/> A Even	<input type="checkbox"/> B Odd	<input type="checkbox"/> C Even and odd	<input type="checkbox"/> D Neither even nor odd
63)	The function $f(x) = \frac{9 - x^2}{x - 2}$ is	<input type="checkbox"/> A Even	<input type="checkbox"/> B Odd	<input type="checkbox"/> C Even and odd	<input type="checkbox"/> D Neither even nor odd
64)	The function $f(x) = \frac{x^2 - 4}{x^2 + 1}$ is	<input type="checkbox"/> A Even	<input type="checkbox"/> B Odd	<input type="checkbox"/> C Even and odd	<input type="checkbox"/> D Neither even nor odd
65)	The function $f(x) = 3 x $ is	<input type="checkbox"/> A Even	<input type="checkbox"/> B Odd	<input type="checkbox"/> C Even and odd	<input type="checkbox"/> D Neither even nor odd
66)	The function $f(x) = x^{-2}$ is	<input type="checkbox"/> A Even	<input type="checkbox"/> B Odd	<input type="checkbox"/> C Even and odd	<input type="checkbox"/> D Neither even nor odd
67)	The function $f(x) = x^3 - 2x + 5$ is	<input type="checkbox"/> A Even	<input type="checkbox"/> B Odd	<input type="checkbox"/> C Even and odd	<input type="checkbox"/> D Neither even nor odd
68)	The function $f(x) = \sqrt[3]{x^5} - x^3 + x$ is	<input type="checkbox"/> A Even	<input type="checkbox"/> B Odd	<input type="checkbox"/> C Even and odd	<input type="checkbox"/> D Neither even nor odd
69)	The function $f(x) = 7$ is	<input type="checkbox"/> A Even	<input type="checkbox"/> B Odd	<input type="checkbox"/> C Even and odd	<input type="checkbox"/> D Neither even nor odd

70)	The function $f(x) = \frac{x^3 - 4}{x^3 + 1}$ is	<input type="checkbox"/> A Even	<input type="checkbox"/> B Odd	<input type="checkbox"/> C Even and odd	<input type="checkbox"/> D Neither even nor odd
71)	The function $f(x) = \frac{x^2 - 1}{x^3 + 3}$ is	<input type="checkbox"/> A Even	<input type="checkbox"/> B Odd	<input type="checkbox"/> C Even and odd	<input type="checkbox"/> D Neither even nor odd
72)	The function $f(x) = x^6 - 4x^2 + 1$ is	<input type="checkbox"/> A Even	<input type="checkbox"/> B Odd	<input type="checkbox"/> C Even and odd	<input type="checkbox"/> D Neither even nor odd
73)	The function $f(x) = x^2$ is increasing on	<input type="checkbox"/> A $(-\infty, 0)$	<input type="checkbox"/> B $(0, \infty)$	<input type="checkbox"/> C $(-\infty, \infty)$	<input type="checkbox"/> D Nowhere
74)	The function $f(x) = x^2$ is decreasing on	<input type="checkbox"/> A $(-\infty, 0)$	<input type="checkbox"/> B $(0, \infty)$	<input type="checkbox"/> C $(-\infty, \infty)$	<input type="checkbox"/> D Nowhere
75)	The function $f(x) = x^3$ is increasing on	<input type="checkbox"/> A $(-\infty, 0)$	<input type="checkbox"/> B $(0, \infty)$	<input type="checkbox"/> C $(-\infty, \infty)$	<input type="checkbox"/> D Nowhere
76)	The function $f(x) = x^3$ is decreasing on	<input type="checkbox"/> A $(-\infty, 0)$	<input type="checkbox"/> B $(0, \infty)$	<input type="checkbox"/> C $(-\infty, \infty)$	<input type="checkbox"/> D Nowhere
77)	The function $f(x) = \sqrt{x}$ is increasing on	<input type="checkbox"/> A $(-\infty, 0)$	<input type="checkbox"/> B $(0, \infty)$	<input type="checkbox"/> C $(-\infty, \infty)$	<input type="checkbox"/> D Nowhere
78)	The function $f(x) = \sqrt{x}$ is decreasing on	<input type="checkbox"/> A $(-\infty, 0)$	<input type="checkbox"/> B $(0, \infty)$	<input type="checkbox"/> C $(-\infty, \infty)$	<input type="checkbox"/> D Nowhere
79)	The function $f(x) = \frac{1}{x}$ is increasing on	<input type="checkbox"/> A $(-\infty, 0)$	<input type="checkbox"/> B $(0, \infty)$	<input type="checkbox"/> C $(-\infty, \infty)$	<input type="checkbox"/> D Nowhere
80)	The function $f(x) = \frac{1}{x}$ is decreasing on	<input type="checkbox"/> A $(-\infty, 0)$	<input type="checkbox"/> B $(0, \infty)$	<input type="checkbox"/> C $(-\infty, \infty)$	<input type="checkbox"/> D Nowhere