DPP-3

1.
$$f(x) = \sqrt{x-5}$$

(A)
$$x \in [5,\infty)$$
 (B) $x \in [7,\infty)$ (C) $x \in (-\infty,5]$ (D) $x \in (-\infty,-5]$

2.
$$f(x) = \sqrt{x^2 - 4x + 3}$$

(B)
$$x \in (-\infty, 1] \cup [3, \infty)$$

3.
$$f(x) = \log(3-x)$$

(A)
$$x \in (3, \infty)$$

4.
$$f(x) = \sqrt{\sin^{-1}\left(\log\frac{x}{2}\right)}$$

(A)
$$x \in [-2, -1]$$

(B)
$$x \in [1, \infty)$$

5.
$$f(x) = \log_5 \log_{1/3} \log_2 x$$

(A)
$$x \in (1, 2)$$

(B)
$$x \in (-\infty,1) \cup (2,\infty)$$

(D)
$$x \in (4, \infty)$$

6.
$$f(x) = \frac{1}{\sqrt{\log_{1/2} (x^2 - 7x + 13)}}$$

(B)
$$x \in (3,4)$$

7.
$$f(x) = \sin^{-1}(2-5x)$$

(A)
$$x \in \left(-\infty, \frac{1}{5}\right] \cup \left[\frac{3}{5}, \infty\right)$$

(B)
$$x \in \left(-\infty, \frac{1}{5}\right]$$

(C)
$$x \in \left[\frac{1}{5}, \frac{3}{5}\right]$$

(D)
$$x \in \left[\frac{3}{5}, \infty\right]$$

8.
$$f(x) = \sqrt{\tan x}$$

(A)
$$x \in \left[n\pi, n\pi + \frac{\pi}{4}\right]$$

(C) $x \in 2n\pi$

(B)
$$x \in \left[n\pi, n\pi + \frac{\pi}{2}\right]$$

(D) $x \in n\pi$

9.
$$f(x) = \sin^{-1}[x-5]$$
 (GIF [])

10.
$$f(x) = \sin^{-1} \log_3(x-2)$$

(A)
$$x \in \left(-\infty, \frac{7}{3}\right] \cup [5, \infty)$$

(C) x ∈
$$\left[\frac{7}{3}, 5\right]$$

11.
$$f(x) = \sqrt{\log\left(\frac{2x-5}{3}\right)}$$

12.
$$f(x) = \sqrt{(x+5)(x-3)(4-x)}$$

(B)
$$x \in (-\infty, -5] \cup [3, 4]$$

(D)
$$x \in (-\infty, 3]$$

13.
$$f(x) = \sqrt{\frac{5-|x|}{3-|x|}}$$

(A)
$$x \in (-\infty, -5] \cup [-3, 3] \cup [5, \infty)$$

14.
$$f(x) = \frac{1}{\log_{10}(1-x)} + \sqrt{x+2}$$

15.
$$f(x) = {}^{5-x} C_{2x-7}$$

1.	2.	3.	4.	5.
Α	В	С	D	Α
6.	7.	8.	9.	10.
В	С	В	Α	С
11.	12.	13.	14.	15.
D	В	Α	С	С