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DOMAIN AND RANGE WORKSHEETS

1. Find the domain and range of the function $F(x) = \sqrt{16 - x^2}$.

2. Find the range of $F(x) = 5 + 2\cos 4x$

(a) $[3, 7]$ (b) $[3, 7]$ (c) $[-3, 7]$ (d) none of these

3. Domain of $\sqrt{a^2 - x^2}$ ($a > 0$) is _____.



4. The domain of $\sqrt{5 - x/(x-3)}$ is _____.

5. Let $F(x) = x^3/(1 + x^3)$ be a function from \mathbb{R} to \mathbb{R} . Determine the range of F .

(a) $[0, 1)$ (b) $[(0, 1]$ (c) $[0, 2)$ (d) none of these

6. Find the domain of the function $F(x) = \sqrt{|x|}$.

(a) \mathbb{R} (b) \mathbb{R}^+ (c) \mathbb{R}^- (d) None of these

7. Find the domain and range of the function F defined by $F(x) = 4 - x / (x - 4)$.

8. The domain of the function F given by $F(x) = (3x + 5) / (x^2 - 7x + 12)$

(a) $\mathbb{R} - \{3, -4\}$ (b) $\mathbb{R} - \{-3, 4\}$
(c) $\mathbb{R} - [3, 4]$ (d) $\mathbb{R} - (3, -4)$

9. The range of the function $f(x) = 3x^2 + 7$.

10. Find the domain and range of the function $F(x) = \sqrt{8 - x^3}$.

(a) $[-2, 2], [0, \sqrt{2}]$ (b) $[-0, 2), [0, 2]$
(c) $[0, 2], [0, 2\sqrt{2}]$ (d) none of these

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"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1)	$[-4, 4], [0, 4]$
2)	(c) $[-3, 7]$
3)	$[-a, a]$
4)	$\mathbb{R} - [3]$
5)	(b) $[0, 1]$
6)	(a) \mathbb{R}

7)	Domain = $\mathbb{R} - [4]$ Range = $[-1]$
8)	(c) $\mathbb{R} - [3, 4]$
9)	$[7, \infty)$
10)	(c) $[0, 2], [0, 2\sqrt{2}]$