

1. $f(x) = \sqrt{x}$. Find $f(9)$.

$\sqrt{9}$

Answer: 3

2. $f(x) = \sqrt{x} + 2$. Find $f(4)$.

$\sqrt{4} + 2$

Answer: 4

3. $f(x) = \sqrt{x - 1}$. Find $f(10)$.

$\sqrt{9}$

Answer: 3

4. $f(x) = \sqrt{x + 1} + 5$. Find $f(3)$. (Trainer echo - Jan 2026 Q14!)

$\sqrt{4} + 5$

Answer: 7

5. Where does $y = \sqrt{x - 4}$ START (leftmost point)?

Inside ≥ 0 : $x = 4$

Answer: (4, 0)

6. What is the domain of $y = \sqrt{x}$?

Can't root a negative

Answer: $x \geq 0$

7. What is the domain of $y = \sqrt{x - 3}$?

$x - 3 \geq 0$

Answer: $x \geq 3$

8. $f(x) = \sqrt{x} - 4$: describe the shift and the starting point.

Down 4

Answer: down 4; starts (0, -4)

9. $f(x) = 2\sqrt{x + 1} - 3$. Find $f(3)$, and the domain. ★ challenge

$2\sqrt{4} - 3 = 4 - 3$

$x + 1 \geq 0$

Answer: $f(3) = 1$; domain $x \geq -1$

10. $f(x) = \sqrt{25 - x}$. Find the domain and $f(9)$. ★ challenge

$25 - x \geq 0$

$\sqrt{16}$

Answer: $x \leq 25$; $f(9) = 4$