

Name: _____

Date: _____

$y = \sqrt{x}$ starts at $(0,0)$ and curves right. $\sqrt{x - h} + k$ shifts it like any function. Last two are challenge problems!

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

show your work

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

show your work

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

show your work

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

show your work

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

show your work

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

show your work

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

show your work

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

show your work

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

show your work

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

show your work