

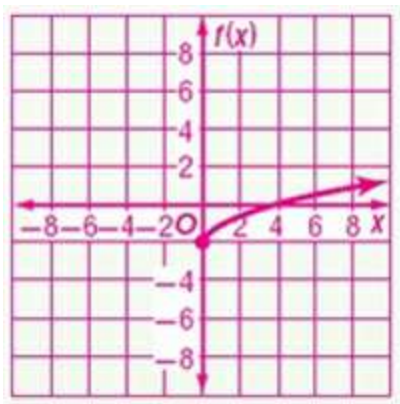
5-3 Square Root Functions and Inequalities

Graph each function. State the domain and range.

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

ANSWER:

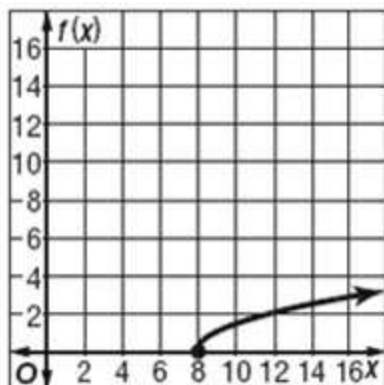
$$D = \{x \mid x \geq 0\}; R = \{f(x) \mid f(x) \geq -2\}$$



Graph each function. State the domain and range.

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

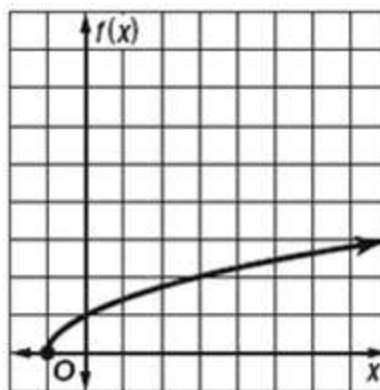
ANSWER:



$$D = \{x \mid x \geq 8\}; R = \{f(x) \mid f(x) \geq 0\}$$

22. $f(x) = \sqrt{x+1}$

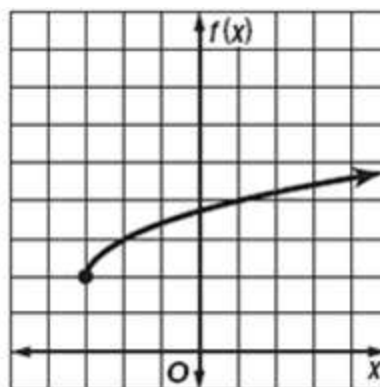
ANSWER:



$$D = \{x \mid x \geq -1\}; R = \{f(x) \mid f(x) \geq 0\}$$

23. $f(x) = \sqrt{x+3} + 2$

ANSWER:

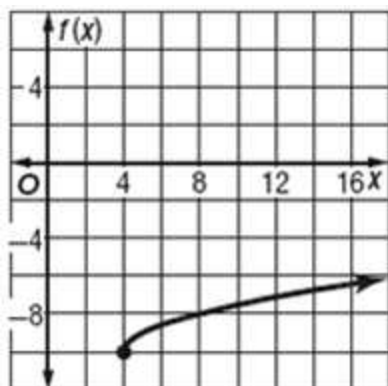


$$D = \{x \mid x \geq -3\}; R = \{f(x) \mid f(x) \geq 2\}$$

5-3 Square Root Functions and Inequalities

24. $f(x) = \sqrt{x-4} - 10$

ANSWER:



$$D = \{x | x \geq 4\} \quad R = \{f(x) | f(x) \geq -10\}$$