

3.5 practice – square root and cube root functions

Name _____

Date _____

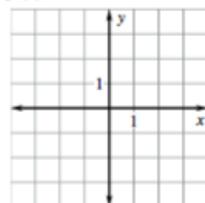
LESSON
3.5

Practice B

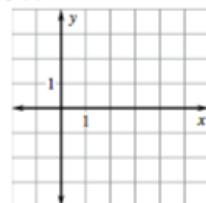
For use with the lesson "Graph Square Root and Cube Root Functions"

Graph the square root function. Then state the domain and range.

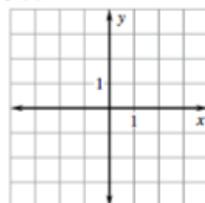
1. $f(x) = \sqrt{x} - 2$



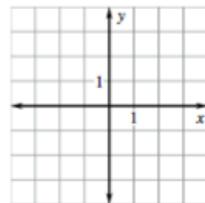
2. $f(x) = \sqrt{x - 2}$



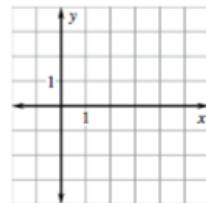
3. $f(x) = 3\sqrt{x + 1}$



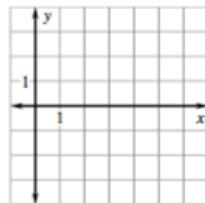
4. $f(x) = \sqrt{x + 2} - 2$



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

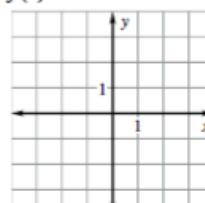


6. $f(x) = -\sqrt{x - 3}$

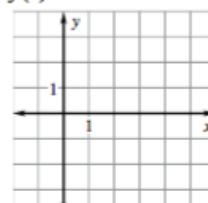


Graph the cube root function. Then state the domain and range.

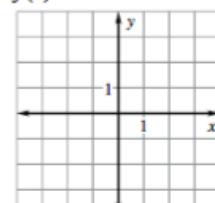
7. $f(x) = \sqrt[3]{x} + 1$



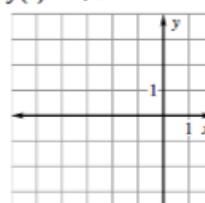
8. $f(x) = \sqrt[3]{x - 4}$



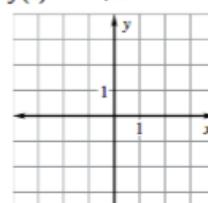
9. $f(x) = 3\sqrt[3]{x}$



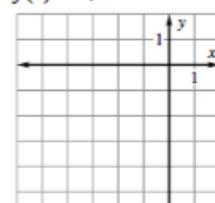
10. $f(x) = \sqrt[3]{x + 2}$



11. $f(x) = -\sqrt[3]{x - 1}$

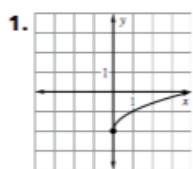


12. $f(x) = \sqrt[3]{x + 2} - 2$

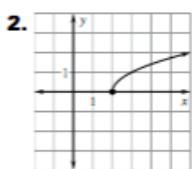


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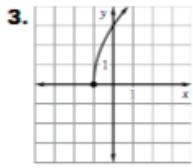
Practice Level B



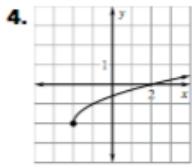
domain: $x \geq 0$,
range: $y \geq -2$



domain: $x \geq 2$,
range: $y \geq 0$

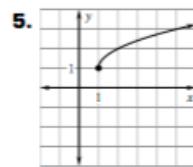


domain: $x \geq -1$,
range: $y \geq 0$

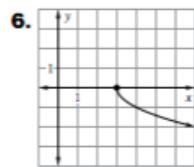


domain: $x \geq -2$,
range: $y \geq -2$

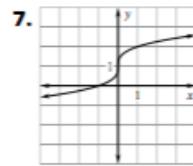
ANSWERS



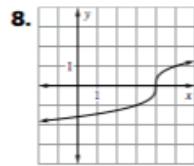
domain: $x \geq 1$,
range: $y \geq 1$



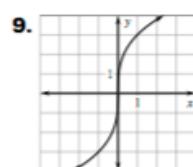
domain: $x \geq 3$,
range: $y \leq 0$



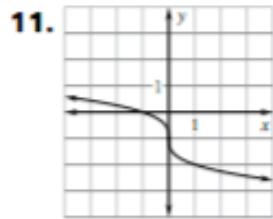
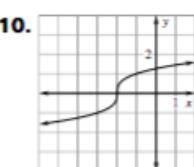
domain and range:
all real numbers



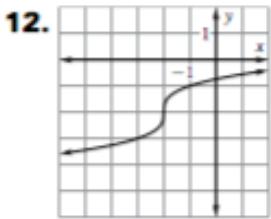
domain and range:
all real numbers



domain and range:
all real numbers



domain and range:
all real numbers



domain and range:
all real numbers