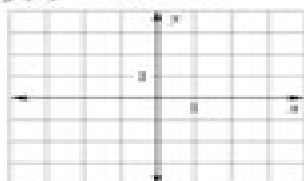


LESSON
3.5**Practice B**

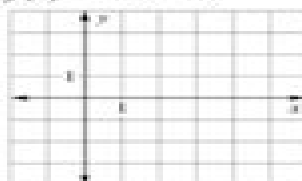
For use with the lesson "Graph Square Root and Cube Root Functions"

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

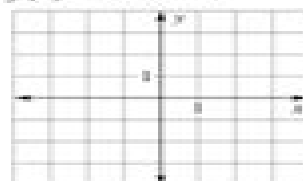
1. $f(x) = \sqrt{x} - 2$



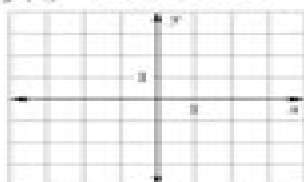
2. $f(x) = \sqrt{x - 2}$



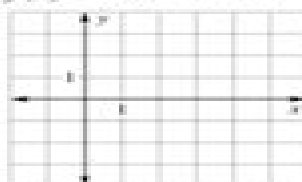
3. $f(x) = 3\sqrt{x + 1}$



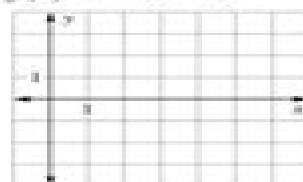
4. $f(x) = \sqrt{x + 2} - 2$



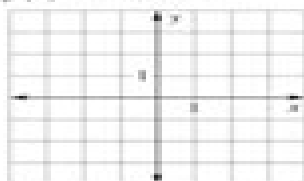
5. $f(x) = \sqrt{x - 1} + 1$



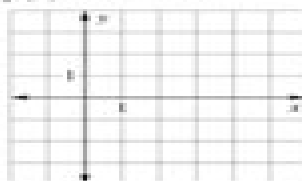
6. $f(x) = -\sqrt{x - 3}$

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

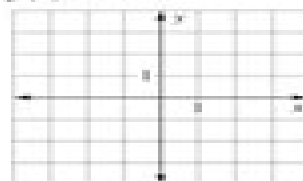
7. $f(x) = \sqrt[3]{x} + 1$



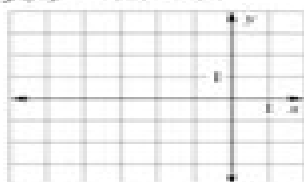
8. $f(x) = \sqrt[3]{x - 4}$



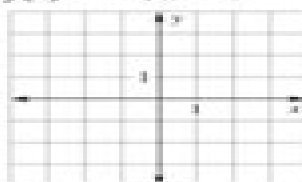
9. $f(x) = 3\sqrt[3]{x}$



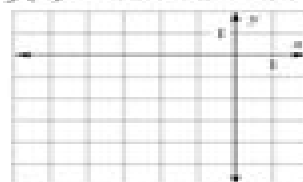
10. $f(x) = \sqrt[3]{x + 2}$



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



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

**In Exercises 13 and 14, use the following information.**

Speed of Sound The speed of sound in feet per second through air of any temperature measured in degrees Celsius is given by $V = \frac{1087\sqrt{t + 273}}{16.52}$ where t is the temperature.

13. Identify the domain and range of the function.

14. What is the temperature of the air if the speed of sound is 1250 feet per second?

Lesson 11 5 Square Root Functions Practice B

Annelies Wilder-Smith



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