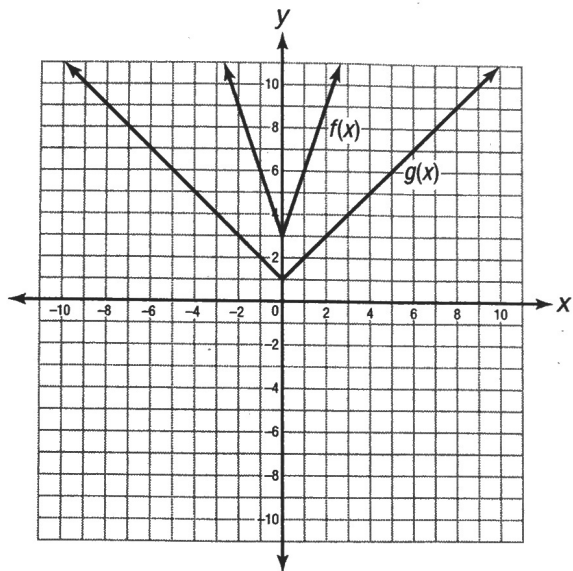


18. The graphs of $f(x)$ and $g(x)$ are shown on the coordinate grid below.



Which of the following describes the relationship between $f(x)$ and $g(x)$?

- A. $g(x) = 3f(x)$
- B. $g(x) = f(3x)$
- C. $g(x) = \frac{1}{3}f(x)$
- D. $g(x) = f\left(\frac{1}{3}x\right)$

19. The number of tablet computers sold at one store over x weeks can be modeled by the function $s(x) = 14x + 2$. Over that time, the number of these computers that are returned because they are defective is given by the function $r(x) = 3x - 2$. Which of the following functions gives the number of computers that are sold and not returned by this store over x weeks?

- A. $17x$, because $s(x) + r(x) = 17x$
- B. $11x + 4$, because $s(x) - r(x) = 11x + 4$
- C. $42x^2 - 22x - 4$, because $s(x) \cdot r(x) = 42x^2 - 22x - 4$
- D. $\frac{14x + 2}{3x - 2}$, because $s(x) \div r(x) = \frac{14x + 2}{3x - 2}$

20. A human heart beats at a rate of about 70 beats per minute. Therefore, the total number of beats in m minutes can be represented by the function $f(m) = 70m$. Which of the following could **not** be a value for m ?

- A. zero
- B. negative numbers
- C. prime numbers
- D. numbers greater than 70