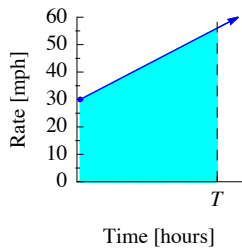


Homework Answers #8

1. a. 13.6 un^2 b. Slightly too high. c. 13.6 un^2 d. Your answer should mention symmetry.
 2. a. See below. b. Distance travelled. c. Miles. d. 100 miles



3. a. $D = \{x : x \neq 0\}$; $R = \{y : y > 1\}$ b. $f(-x) = \frac{3}{x^2} + 1$, $f(\sqrt{x}) = \frac{3}{x} + 1$, and $f(x+h) = \frac{3}{(x+h)^2} + 1$
 4. a. $y = 1$ b. $y = \frac{x}{2}$
 5. a. $D = (-\infty, \infty)$ b. $D = \{x : x \neq 0, -1\}$ c. $D = (-\infty, -3] \cup [3, \infty)$ d. $D = \{x : x > 3\}$
 6. a. $k^{7/2}$ b. $t^{4/3}$ c. n^2 d. $b^{31/5}$
 7. a. a. A cone. b. $\frac{100\pi}{3} \text{ un}^3$
 8. d. a) Even b) Neither c) Odd

