

Math 6c, homework 21



1. A person walks at a speed of 4 km/h. Write the distance SSS traveled by the person as a function of time t . Construct a table showing the distance traveled for times from 0 to 3 hours, at 20-minute intervals.
2. The function is given by the formula

$$y = \frac{1}{x}$$

Find the value of the function for the given x :

Example:

$$y(100) = \frac{1}{100} = 0.01$$

$$y(1); \quad y(2); \quad y(5); \quad y(0.5); \quad y\left(\frac{1}{3}\right);$$

3. Do the points below belong to the graph of the function $y = -x$:
 $A(6, -6); \quad B(5, 5); \quad C(100, -100); \quad D(-3, 3); \quad M(5, -5); \quad O(0, 0);$
4. Does the point $A(x, y)$ belong to the graph of the function $y = x^2$:
 $a. x = 1, y = 5;; \quad b. x = 1.5, \quad y = 2\frac{1}{4}; \quad c. x = -0.4, \quad y = 1.6;$
 $d. x = 3, y = 9; \quad e. x = -2, \quad y = 4; \quad f. x = 1\frac{1}{2}, \quad y = 4.5;$
5. Plot the graphs of the functions:
 $y = 2x + 3; \quad y = 2x - 3$
6. Plot the graphs of the functions:
 $y = x^2 + 3; \quad y = (x + 3)^2; \quad y = (x + 3)^2 + 3$
7. The graph of a linear function (*general form is $y = ax + b$*) pass through the points $A(1, 2)$ and $B(3, 5)$. Find the function and plot it in your notebook.