General Algebra II Worksheet #4 Unit 6 Selected Solutions

Mary bikes for 2.5 hours at a constant speed of 8 miles per hour. Let t represent her biking time (in hours) and D(t) represent the distance she has gone (in miles). Answer each of the following. Show your process neatly organized.

22. Make a table giving t and D(t) every half hour from t = 0 to t = 2.5.

t	D(t)
0	0
0.5	4
1	8
1.5	12
2	16
2.5	20

23. Graph function D.



24. Write an equation giving D(t) in terms of t. D(t) = 8t

25. What is the domain of function D?

[0, 2.5]

27. Evaluate D(1.2). What does D(1.2) represent in terms of the problem?

D(1.2) = 9.6 miles. D(1.2) represents the distance Mary bikes in 1.2 hours.

26. What is the range of function D?

[0,20]

28. If D(t) = 14, then find the value of t. Describe what this value of t represents in terms of the problem.

t = 1.75 hours. This value of t represents the time it takes Mary to bike 14 miles.