## General Algebra II Worksheet \#4 Unit 6 Selected Solutions

Mary bikes for 2.5 hours at a constant speed of $\mathbf{8}$ 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 $t=2.5$.
23. Graph function D.

24. Write an equation giving $D(t)$ in terms of $t$. $D(t)=8 t$
25. What is the domain of function $D$ ?
[0,2.5]
27. Evaluate D(1.2). What does $\mathbf{D}(\mathbf{1 . 2})$ 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.

