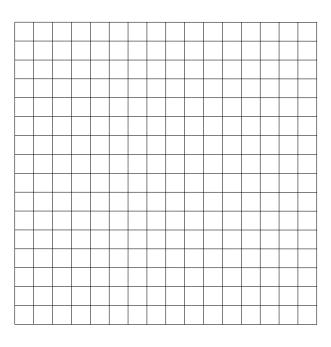
Algebra II	Worksheet #3	Unit 3	page 1	
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Jane walks for 1 minute at a constant speed of 4 feet per second. Let t represent her walking time (in seconds) and d(t) represent the distance she has walked (in feet). Answer each of the following. Show your process neatly organized.

- 1. Make a table giving t and d(t) every 10 seconds from t = 0 to t = 60.
- 2. Graph function d.



3. Write an equation giving d(t) in terms of t.

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4. What is the domain of function d?

5. What is the range of function d?

6. Evaluate d(20). What does d(20) represent in terms of the problem?

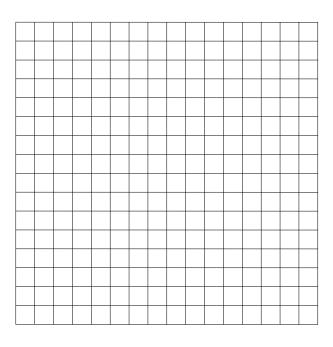
7. If d(t) = 20, then find the value of t. Describe what this value of t represents in terms of the problem.

## Algebra II Worksheet #3 Unit 3 page 2

Harry bikes for 2 hours at a constant speed of 12 miles per hour. Let t represent his biking time (in **hours**) and D(t) represent the distance he has gone (in **miles**). Answer each of the following. Show your process neatly organized.

8. Make a table giving t and D(t) every half hour from t = 0 to t = 2.

9. Graph function D.



10. Write an equation giving D(t) in terms of t.

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11. What is the domain of function D?

12. What is the range of function D?

13. Evaluate D(0.75). What does D(0.75) represent in terms of the problem?

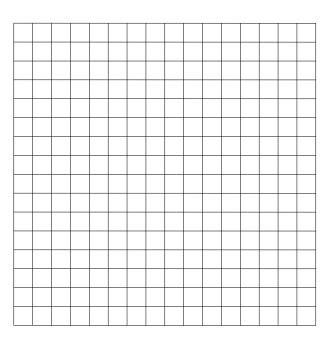
14. If D(t) = 18, then find the value of t. Describe what this value of t represents in terms of the problem.

## Algebra II Worksheet #3 Unit 3 page 3

Paul walks for **3 minutes** at a constant speed of **3 feet per second**. Let t represent his walking time (in **seconds**) and d(t) represent the distance he has walked (in **feet**). Answer each of the following. Show your process neatly organized.

15. Make a table giving t and d(t) every 30 seconds from t = 0 to t = 180.

16. Graph function d.



17. Write an equation giving d(t) in terms of t.

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18. What is the domain of function d?

19. What is the range of function d?

20. Evaluate d(90). What does d(90) represent in terms of the problem?

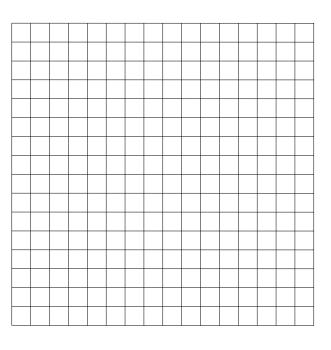
21. If d(t) = 90, then find the value of t. Describe what this value of t represents in terms of the problem.

## Algebra II Worksheet #3 Unit 3 page 4

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.

23. Graph function D.



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

25. What is the domain of function D?

26. What is the range of function D?

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

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