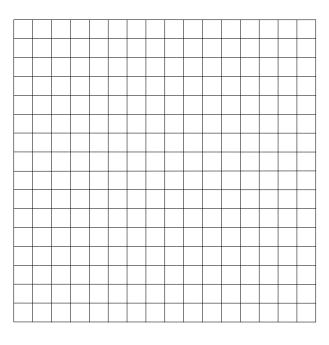
Algebra II	Worksheet #4	Unit 3	page 1	
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Paul has a part-time job. He can work up to 30 hours a week. He gets paid \$7.50 per hour. Let t represent the number of hours he works. Let p(t) represent his total pay.

- 1. Make a table giving t and p(t) every 5 hours from t = 0 to t = 30.
- 2. Graph function p.



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

4. What is the domain of function p?

5. What is the range of function p?

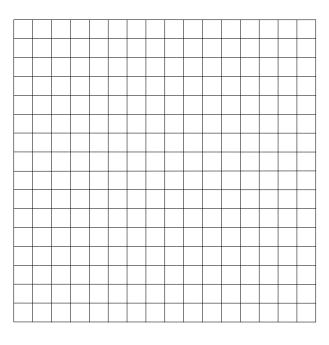
6. Evaluate p(12). What does p(12) represent in terms of the problem?

7. If p(t) = 30, then find the value of t. Describe what this value of t represents in terms of the problem.

Algebra II Worksheet #4 Unit 3 page 2

Sue has a part-time job. She can work up to 24 hours a week. She gets paid \$9 per hour. Let t represent the number of hours she works. Let P(t) represent her total pay.

- 8. Make a table giving t and P(t) every 4 hours from t = 0 to t = 24.
- 9. Graph function P.



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

11. What is the domain of function P?

12. What is the range of function P?

13. Evaluate P(10). What does P(10) represent in terms of the problem?

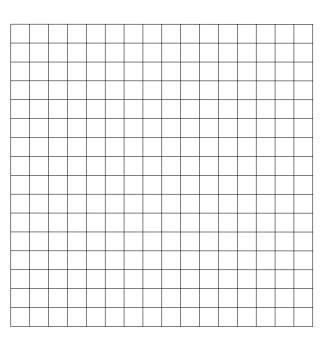
14. If P(t) = 45, then find the value of t. Describe what this value of t represents in terms of the problem.

Algebra II Worksheet #4 Unit 3 page 3

Fantasy Island is 32 miles due east of Marine Bay. A Ferry sails from Marine Bay to Fantasy Island at a constant speed of 8 miles per hour. Let t represent the time in **hours** that the Ferry has been sailing. Let d(t) represent the **distance in miles that the Ferry is from Fantasy Island**.

15. Make a table giving t and d(t) every hour from t = 0 until the Ferry reaches Fantasy Island.

16. Graph function d.



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

18. What is the domain of function d?

19. What is the range of function d?

20. Evaluate d(1.5). What does d(1.5) represent in terms of the problem?

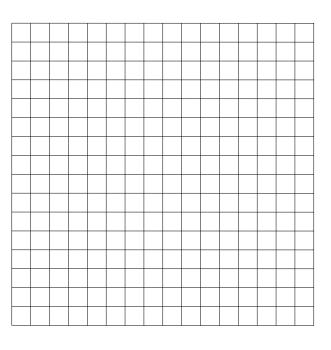
21. If d(t) = 12, then find the value of t. Describe what this value of t represents in terms of the problem.

Algebra II Worksheet #4 Unit 3 page 4

Joe bikes from his house to his cousing house, a distance of 18 miles, at a constant speed of 12 miles per hour. Let t represent the time in **hours** that Joe has been biking. Let D(t) represent the **distance in miles that Joe is from his cousin's house**.

22. Make a table giving t and D(t) every half hour from t = 0 until Joe reaches his cousing house.

23. Graph function D.



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

f t. ______

25. What is the domain of function D?

26. What is the range of function D?

27. Evaluate D(0.5). What does D(0.5) represent in terms of the problem?

28. If D(t) = 9, then find the value of t. Describe what this value of t represents in terms of the problem.