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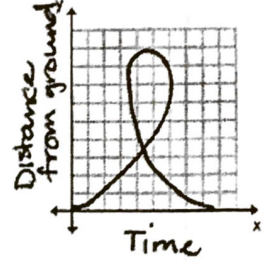
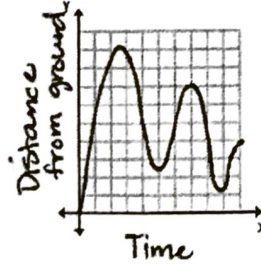
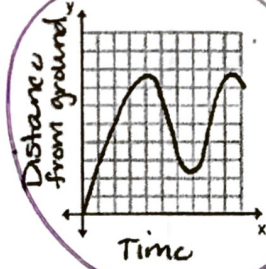
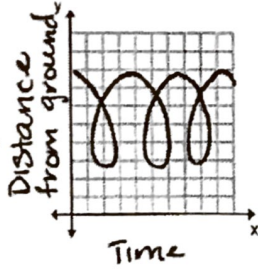
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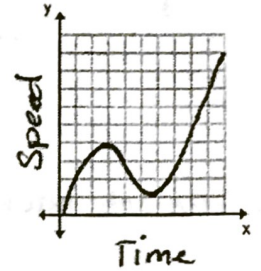
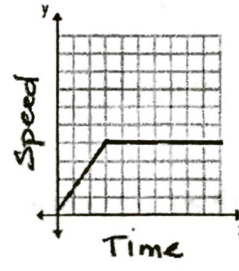
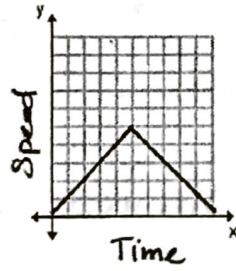
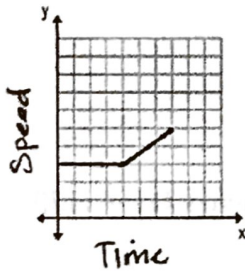
# HW 3-7: Qualitative Graphs

Match the situation with an appropriate graph. (1-5)

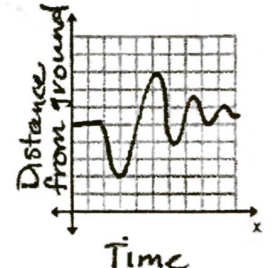
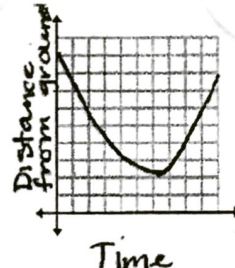
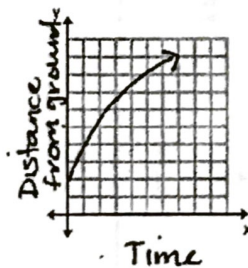
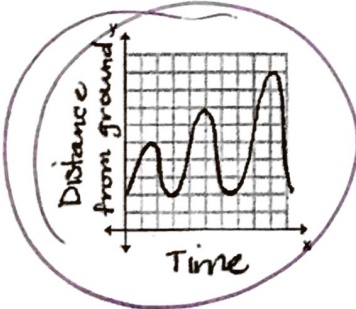
1. A man takes a ride on a ferris wheel



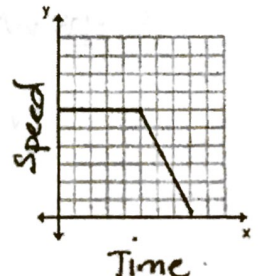
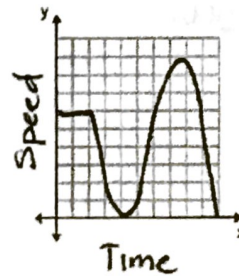
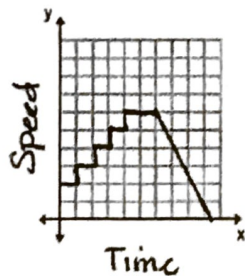
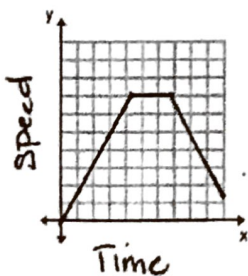
2. A woman climbs a hill at a steady pace and then starts to run down one side.



3. A child swings on a swing.

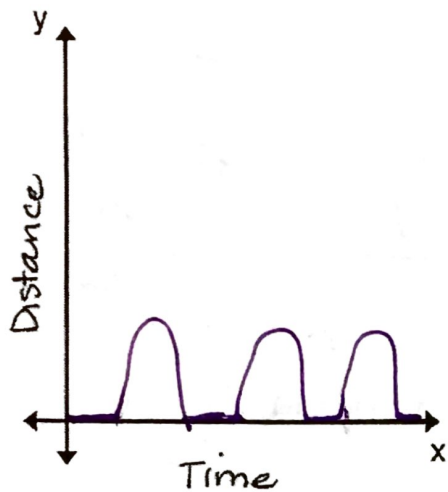


4. A child climbs up a slide and then slides down.

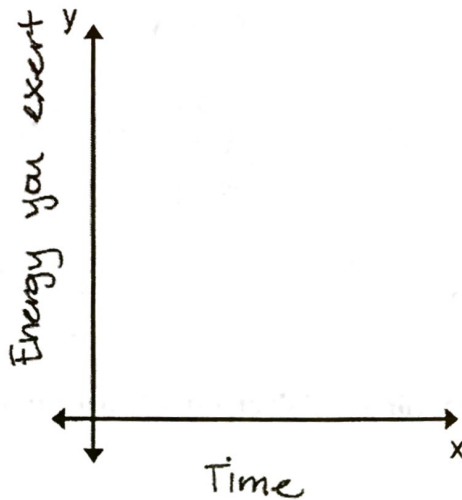


Draw a graph for each situation.

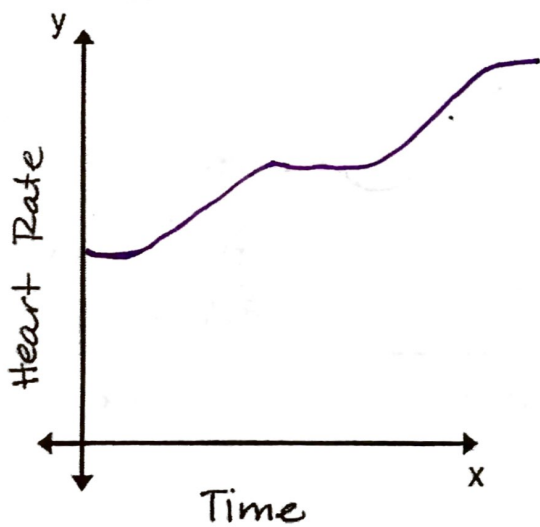
5. Your distance from the ground as you jump rope.



6. Your energy level during one gym class.

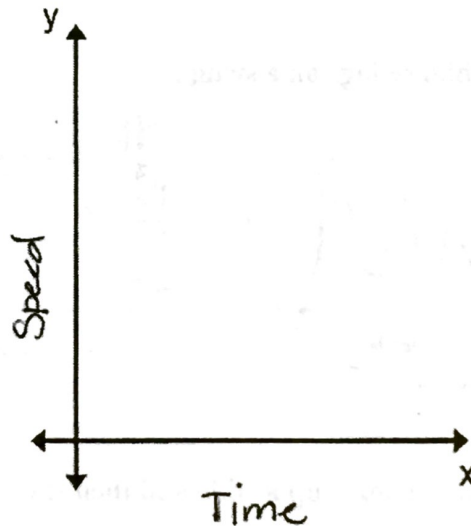


7. Your pulse rate as you watch a scary movie.



\*Answers may vary\*

8. Your speed as you skateboard down a hill.

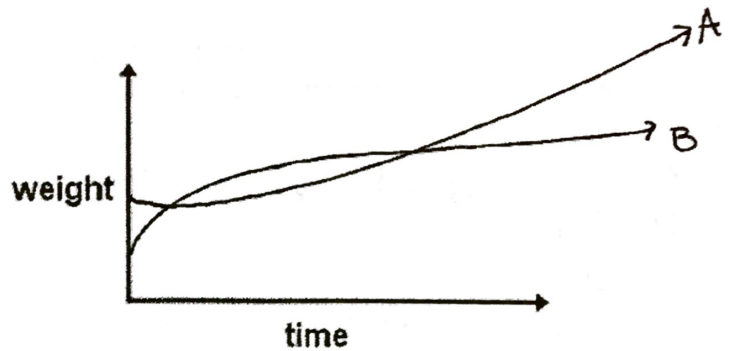


Describe the situation that happens in each graph.

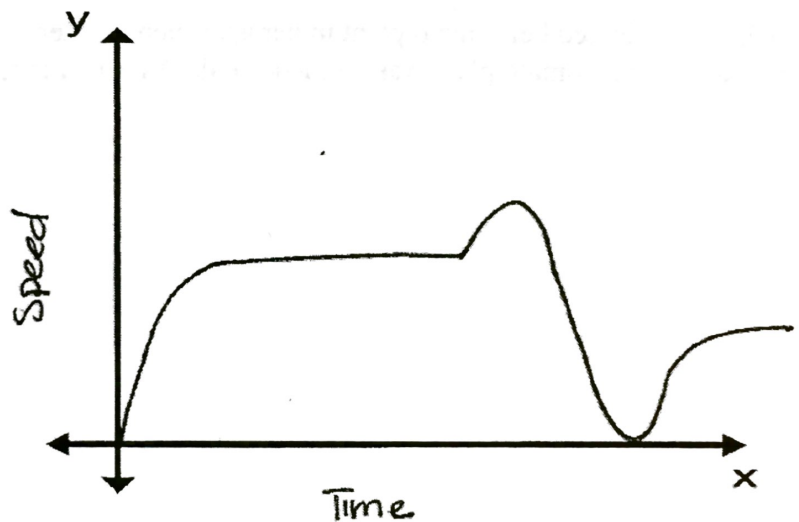
9. The graph shows the weight of a baby and the weight of a puppy for their first two years. Decide which graph belongs to a puppy and which belongs to a baby.

A: Baby

B: PUPPY



10. In words, describe a student's inline skating experience shown in the graph.



**Review Problems. Do the following four parts in each of the next questions**

- a) Make a table to organize the information from the problem.
- b) Write an equation for the situation.
- c) Interpret the slope.
- d) Interpret the y-intercept.

11. Carmen pays a snowboard instructor for private lessons. The instructor charges an initial fee and a constant amount per hour. Carmen paid \$265 for six hours of instruction. Then for eight hours of instruction she paid \$345.

a) X: # of hours | y: cost \$

0	25
6	265
8	345

b)  $y = 40x + 25$

c) \$40 per hour of instruction

d) \$25 initial fee

12. Charlotte planted her tomato plant in her apartment. After 2 weeks, the tomato plant was 14 inches tall. After 5 weeks, the tomato plant was 23 inches tall. Assume the relationship is linear.

c) Grows 3 in each week

13. Thomas is writing a novel. After 4 weeks, he has written 85 pages. After 7 weeks, he has written 133 pages. Assume the relationship is linear.

b)  $y = 16x + 21$

14. Kelly bought a new 3D Television set. The value of the TV set after 3 years was \$850, and after 6 years the TV set was worth \$100. Assume the relationship is linear.

d) The TV cost \$1600 when Kelly bought it.

15. Zane hired a landscaper to work in his yard. The landscaper charges a consultation fee and an hourly rate for work done. After 5 hours of work, Zane owed the landscaper \$230. After 9 hours of work he owed \$374. Assume the relationship is linear.

$$b) y = 36x + 50$$

16. The second little pig is building a house out of wood. He started with a pile of 2x4 boards. After one week of building, there were 459 boards left. There were 207 boards left in the pile after 11 days. Assume the relationship is linear.

a)

X: # of Days	y: # of boards left
0	900
7	459
11	207