

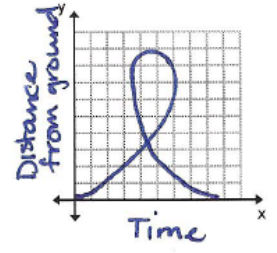
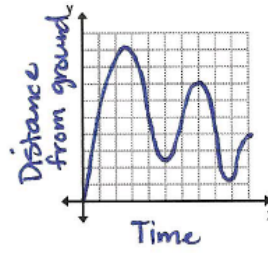
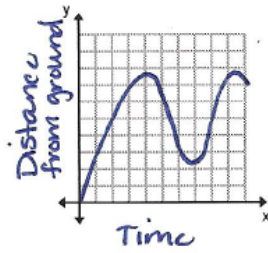
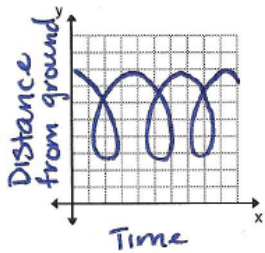
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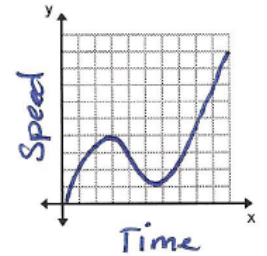
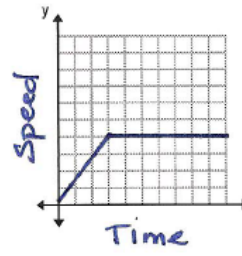
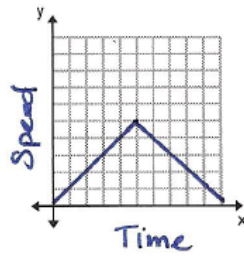
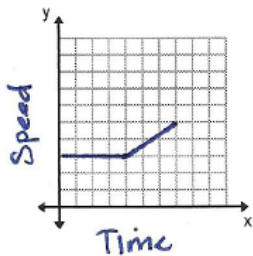
# HW 3-7: Qualitative Graphs

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

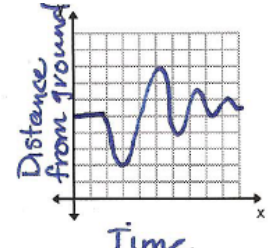
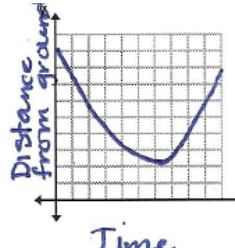
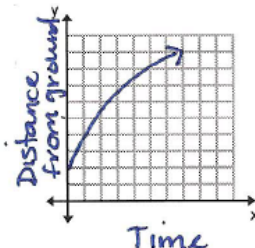
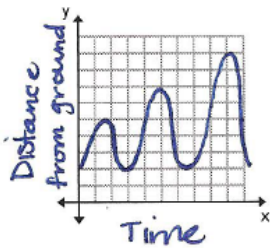
1. A man takes a ride on a ferris wheel



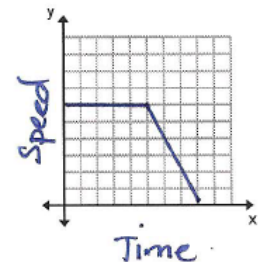
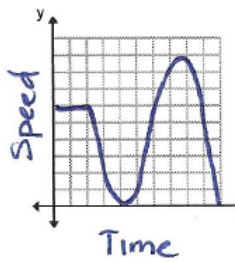
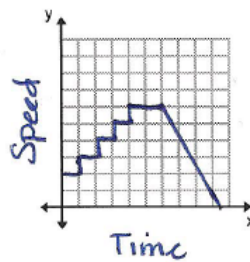
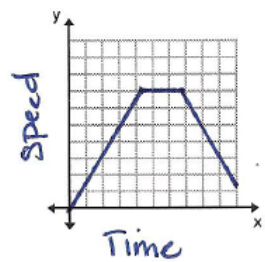
2. A woman climbs a hill at a steady pace and then starts to run down one side.



3. A child swings on a swing.

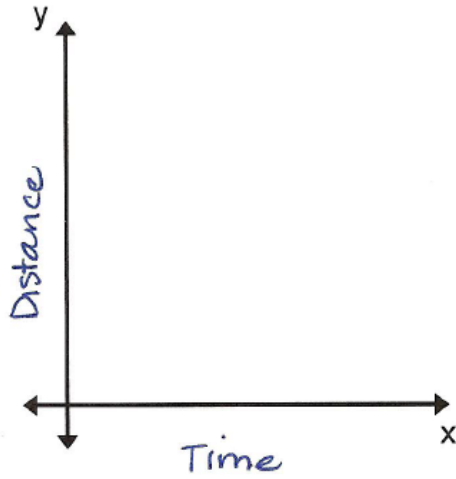


4. A child climbs up a slide and then slides down.

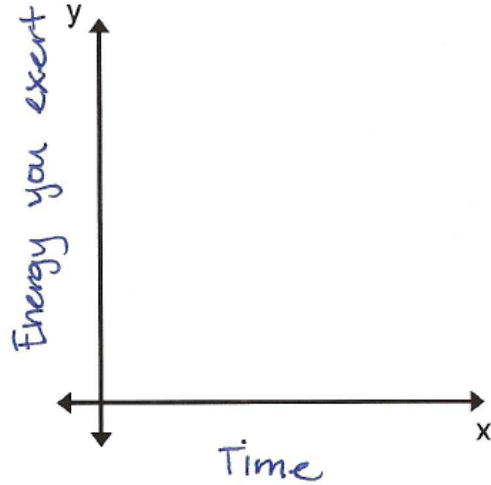


Draw a graph for each situation.

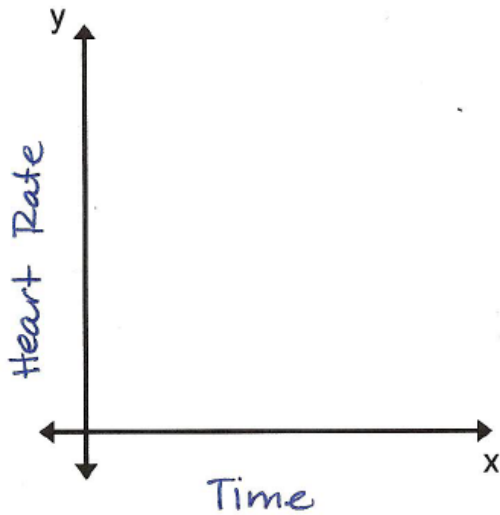
5. Your distance from the ground as you jump rope.



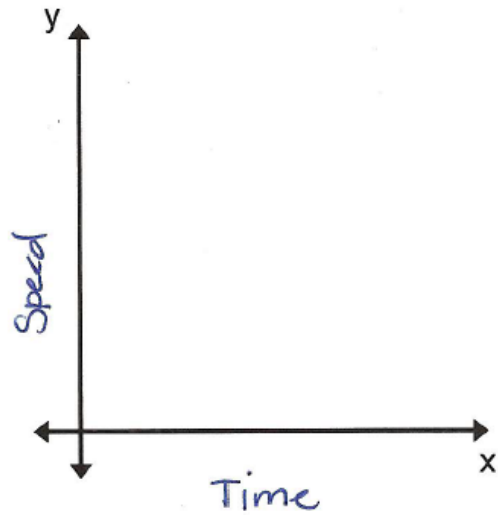
6. Your energy level during one gym class.



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

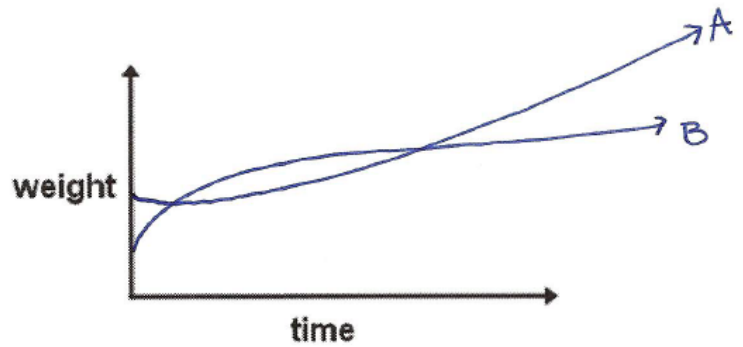


8. Your speed as you skateboard down a hill.

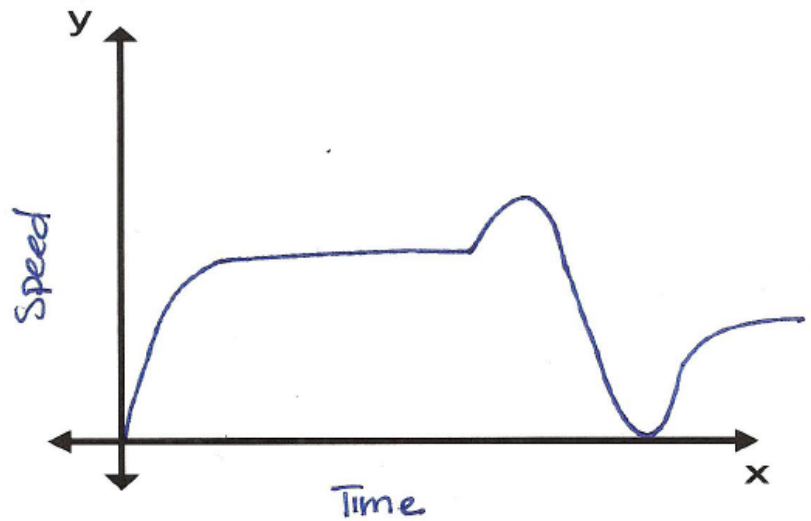


Describe the situation that happens in each graph.

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.



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.

**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.

**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.

**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.

**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.

**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.