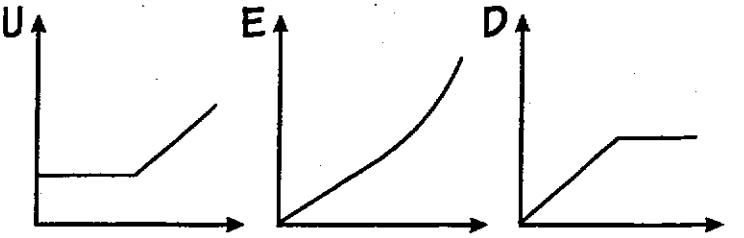
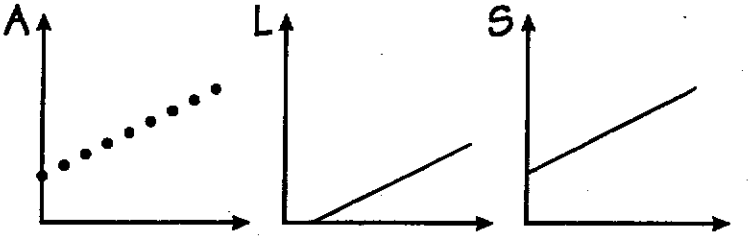
What Makes a Laundry Detergent Good?

Sketch a graph for the situation using the variables given. Match your graph to one of the

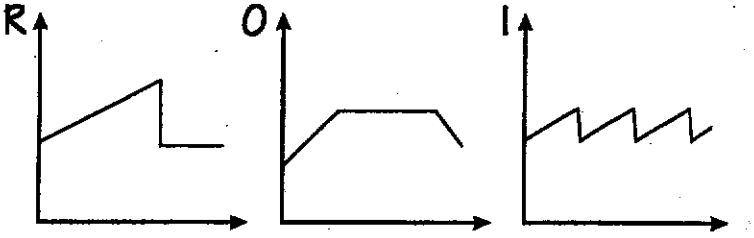
1. Roy rode his bike up a hill at a slow but steady speed, then went faster and faster as he rode down the other side.
   Let x = time; y = distance traveled
2. Same situation as #1 above.
   Let x = time; y = speed



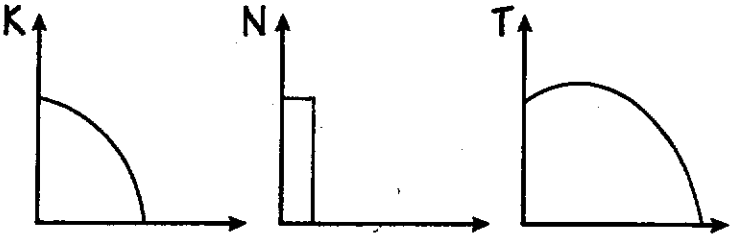
3. Klash loaded 50-pound boxes on an elevator, then rode up with them.
   Let x = number of boxes; y = total weight in the elevator
4. Ms. Snuggle filled a pot with water, then put the pot on a hot burner.
   Let x = time; y = temperature of water



5. Mark's hair grows at a steady rate, so he gets a haircut once a month.
   Let x = time; y = length of Mark's hair
6. Maria ran a few laps around the track, then walked a lap to cool down.
   Let x = time; y = Maria's heart rate



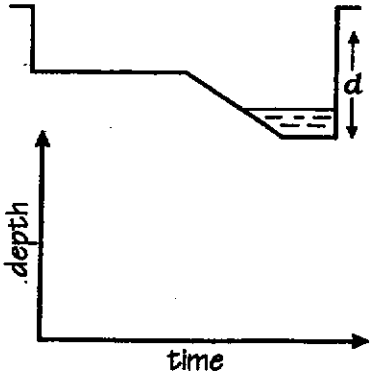
7. Kortex threw a rock as far as he could from the top of a cliff.
   Let x = time; y = height of rock.
8. Kortex dropped a rock from the top of a cliff.
   Let x = time; y = height of rock.



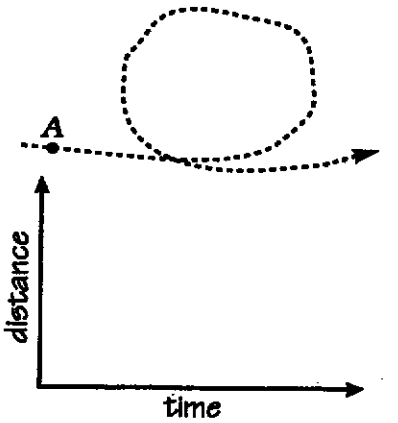
		5	7	7	3	8	1	4	6	2	7	7	3	8	1	6	2	7	

CHALLENGE: Sketch a graph for each situation.

Situation #1
Water is flowing into a swimming pool at a constant rate. A cross section of the pool is shown. Sketch a graph to show how the depth of water in the pool varies with time.



Situation #2
An ant is crawling around on your kitchen counter. The path of the ant is shown. Sketch a graph to show how the distance of the ant from Point A varies with time.



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DRAWING GRAPHS

SHEET 3

1. Sara walks from her home to the store. Halfway to the store, she realizes that she forgot to bring money, so she turns around, returns home, gets her money, and then walks all the way to the store. Graph time on the horizontal axis and distance from home on the vertical axis.

2. Rashid is jumping on a trampoline. Graph time on the horizontal axis and his distance off the ground on the vertical axis.

3. Kendra is speeding along the highway and is stopped by a police officer. The officer gives her a ticket and then she continues on her way. Graph time on the horizontal axis and her speed on the vertical axis.

4. Carlos lives in a large city and travels to school on a local bus that stops at every block to let passengers on and off.

   a) Graph time on the horizontal axis and the speed of the bus on the vertical axis.
   b) Graph time on the horizontal axis and the distance Carlos has traveled on the vertical axis.