Basic Patterns and Graphs Practice #2

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- km 60 1. a) Plot lines on the graph from opposite for the situation start ₅₀ where: 40 Abe starts 50 km from home. He bikes home for two hours 30 at 15 km an hour. 20 • Then he gets a puncture and has to walk. He gets home six 10 hours after he started. 0 b) What is the average 2 1 3 4 5 time (hrs) speed he walks at
 - c) On the graph is the distance of a person running a marathon forthe first time. What is that person's top speed during the race?
- 2. a) Fill in the table relating the number of hexes to the number of sides in the pattern:

$\supset \bigcirc \bigcirc$	hexe	es	1	2	3	4	5	6
\bigcirc	side	? <i>S</i>	6	11				1

b) Give the equation for sides (s) from hexes (h): s =

c) Using that equation, work out how many sides 40 hexes have:

3. The graph below shows the number of cars per minute along a stretch of road over a day:



Answers: Basic Patterns and Graphs Practice #2



b) Give the equation for sides (s) from hexes (h): s = 5h + 1

c) Using that equation, work out how many sides 40 hexes have: $s = 5 \times 40 + 1 = 201$

