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## BLM 6-5

## Section 6.1 Extra Practice

1. The graph shows how quantity Y is changing relative to quantity X . Describe each section of the graph as representing a constant increase, a constant decrease, an increase that is not constant, a decrease that is not constant, or no change. Explain your answers.

2. Match each scenario with its appropriate graph.
a) the height of a bungee jumper after a jump
b) the vertical growth of a tree
c) the temperature of a cup of hot chocolate as it sits on a table
d) Calgary's daily mean temperature




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## BLM 6-5

 (continued)3. Describe a situation for each of the following graphs.
a)

b)

c)


4. Create a graph to represent the temperature in your home for a $24-\mathrm{h}$ period.
5. Sakura leaves home and travels at a steady speed of $100 \mathrm{~km} / \mathrm{h}$ for 1 h , slows to $80 \mathrm{~km} / \mathrm{h}$ for $\frac{1}{2} \mathrm{~h}$ due to construction, then continues at $110 \mathrm{~km} / \mathrm{h}$ for another hour. She stops for 2 h for a meeting. She returns home at a steady $100 \mathrm{~km} / \mathrm{h}$. Sketch a graph of each scenario.
a) distance travelled versus time
b) distance from home versus time
c) speed versus time
6. Sunseeker II is a lightweight solar-powered airplane. The four packs of lithium polymer batteries provide power for takeoff and climbing. Once it hits its cruising altitude of 3000 ft , Sunseeker II uses solar power to maintain altitude. Create an altitude-versus-time graph for your ride of a lifetime. Provide a scenario with your graph.
