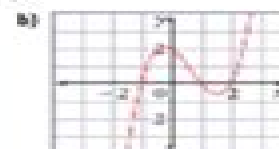
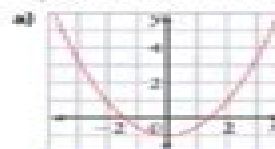


## Chapter 1 Rates of Change

- Consider the function  $f(x) = 2x^2 - 3x + 4$ .
  - Determine the average rate of change between the point where  $x = 1$  and the point determined by each  $x$ -value.  
 i)  $x = 4$       ii)  $x = 1.5$       iii)  $x = 1.1$
  - Describe the trend in the average slopes. Predict the slope of the tangent at  $x = 1$ .
- State whether each situation represents average or instantaneous rate of change. Explain your reasoning.
  - Ali calculated his speed as 95 km/h when he drove from Toronto to Windsor.
  - The speedometer on Eric's car read 87 km/h.
  - The temperature dropped by  $2^\circ\text{C/h}$  on a cold winter night.
  - At a particular moment, oil was leaking from a container at 20 L/s.
- Expand and simplify each expression, then evaluate for  $a = 2$  and  $h = 0.01$ .  
 i)  $\frac{3(a+h)^2 - 3a^2}{h}$       ii)  $\frac{(a+h)^3 - a^3}{h}$
  - What does each answer represent?
- A ball was tossed into the air. Its height, in metres, is given by  $h(t) = -4.9t^2 + 6t + 1$ , where  $t$  is time, in seconds.
  - Write an expression that represents the average rate of change over the interval  $2 \leq t \leq 2 + h$ .
  - Find the instantaneous rate of change of the height of the ball after 2 s.
  - Sketch the curve and the rate of change.
- Determine the limit of each infinite sequence. If the limit does not exist, explain.
  - 2, 2.1, 2.11, 2.111, ...      b)  $5, 5\frac{1}{2}, 5\frac{1}{4}, 5\frac{1}{8}, \dots$
  - 2, -2, 2, -2, 2, ...      d) 450, -90, 18, ...

- Evaluate each limit. If it does not exist, provide evidence.
  - $\lim_{x \rightarrow 2} (3x^2 - 4x + 1)$       b)  $\lim_{x \rightarrow -4} \frac{5x + 40}{x + 8}$
  - $\lim_{x \rightarrow 6} \sqrt{x - 6}$       d)  $\lim_{x \rightarrow 3} \frac{2x - 9}{x - 3}$
- Sketch a fully labelled graph of  

$$f(x) = \begin{cases} 2x + 1, & x < 0 \\ 3, & x = 0 \\ 2x^2 - 1, & x > 0. \end{cases}$$
  - Evaluate each limit. If it does not exist, explain why.  
 i)  $\lim_{x \rightarrow 3} f(x)$       ii)  $\lim_{x \rightarrow 0} f(x)$
- Use first principles to determine the derivative of each function. Then, determine an equation of the tangent at the point where  $x = 2$ .
  - $y = 4x^2 - 3$       b)  $f(x) = x^3 - 2x^2$
  - $g(x) = \frac{3}{x}$       d)  $h(x) = 2\sqrt{x}$
- Given the graph of  $f(x)$ , sketch a graph that represents its rate of change.



## Chapter 2 Derivatives

- Differentiate each function.
  - $y = -3x^2 + 4x - 5$
  - $f(x) = 6x^{-3} - 5x^{-2}$
  - $f(x) = 4\sqrt{x}$
  - $y = (3x^2 - 4x)(\sqrt{x} - 1)$
  - $y = \frac{x^2 + 4}{3x}$

# Mhr Calculus And Vectors 1solutions Chapter 1

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