

***LIMITS, FIRST PRINCIPALS, RULES OF DIFFERENTIATION
AND THE EQUATION OF A TANGENT TO A FUNCTION***

SOLUTIONS

ACTIVITY 1

1.1.1	$\lim_{x \rightarrow 2} (x + 2)^2$ $= \lim_{x \rightarrow 2} x^2 + 4x + 4$ $= 16$	✓ Simplifying ✓ Answer
1.1.2	$\lim_{h \rightarrow 0} \frac{(3 - h)^2 - 9}{h}$ $= \lim_{h \rightarrow 0} \frac{9 - 6h + h^2 - 9}{h}$ $= \lim_{h \rightarrow 0} \frac{h(-6 + h)}{h}$ $= -6$	✓ Removing brackets ✓ taking h as common factor ✓ answer
1.2	$f'(x) = \lim_{h \rightarrow 0} \frac{f(x + h) - f(x)}{h}$ $= \lim_{h \rightarrow 0} \frac{2(x+h)^2 - (x+h) - (2x^2 - x)}{h}$ $= \lim_{h \rightarrow 0} \frac{2(x^2 + 2xh + h^2) - x - h - 2x^2 + x}{h}$ $= \lim_{h \rightarrow 0} \frac{2x^2 + 4xh + 2h^2 - x - h - 2x^2 + x}{h}$ $= \lim_{h \rightarrow 0} \frac{4xh + 2h^2 - h}{h}$ $= \lim_{h \rightarrow 0} \frac{h(4x + 2h - 1)}{h}$ $= \lim_{h \rightarrow 0} (4x + 2h - 1)$ $= 4x - 1$	✓ substitution ✓ simplification brackets ✓ simplification up to $\lim_{h \rightarrow 0} \frac{4xh + 2h^2 - h}{h}$ ✓ factorization ✓ answer
1.3.1	$\frac{dy}{dx} = 2(x + x^{-2})(1 - 2x^{-3})$ $= 2x - 4x^{-2} - 2x^{-2} - 4x^{-5}$ $= 2x - 2x^{-2} - 4x^{-5}$	✓✓ use of formula ✓ multiplication

Grade 12 Calculus Questions Answers

The Princeton Review, David Khan

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