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

#### SOLUTIONS

#### ACTIVITY 1

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

# **Grade 12 Calculus Questions Answers**

**Anthony S. Fauci** 

| <b>Grade 12 Calculus Questions Answers</b> |
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