

Open Book Quiz !

G11. Quiz Chapter 7. Differentiation

- Find the gradient of the curve $y = \frac{12}{x}$ at point (4,3)
 - $\frac{3}{4}$
 - $-\frac{3}{4}$
 - 1
 - 3
- The derivative of $f(x) = -1$ is
 - 0
 - $-x$
 - 1
 - Can not be determined
- The gradient of the curve $y = (2x - 5)(x + 4)$ at point (3, 7) is
 - 7
 - 7
 - 10
 - 15
- Find the coordinates of the points on the curve $y = x^3 - 3x - 8$ where the gradient 9.
 - $(-2, -10), (2, -6)$
 - $(-2, 10), (2, 6)$
 - $(2, 10), (2, 6)$
 - $(-2, -10), (-2, -6)$
- Differentiate $2(4 - 7x)^4$ with respect to x !
 - $56(4 - 7x)^3$
 - $-56(4 - 7x)^3$
 - $-8(4 - 7x)^3$
 - $8(4 - 7x)^3$
- The differentiation of $f(x) = \frac{1}{\sqrt{2x - 5}}$ is
 - $-\frac{1}{\sqrt{(2x - 5)^2}}$
 - $\frac{1}{\sqrt[3]{(2x - 5)^2}}$
 - $-\frac{1}{\sqrt{(2x - 5)^3}}$
 - $\frac{1}{\sqrt{(2x - 5)^3}}$
- Find the equation of the tangent of curve $y = (2x - 5)^4$ at the point (2, 1)
 - $y = 3x - 7$
 - $y = 3x + 9$
 - $y = -8x + 17$
 - $y = -8x - 17$
- Find $\frac{d^2y}{dx^2} (2x - 3)^4$!
 - $4(2x - 3)^3$
 - $8(2x - 3)^3$
 - $24(2x - 3)^2$
 - $48(2x - 3)^2$
- If $f'(x) = 5x^3 - 7x^2 + 5$, then $f''(x)$ is
 - $90x - 14$
 - $90x + 14x$
 - $45x^2 - 14x$
 - $45x^2 + 14x$
- Given that $f(x) = x^3 + 2x^2 - 3x - 1$, find $f''(1)$...
 - 1
 - 4
 - 10
 - 14