

MA104 - Differential Calculus Derivatives

$$1. \ f(x) = 5x^2 + x + 6$$

$$2. \ g(t) = \frac{1}{t^3} - 4t^2$$

$$3. \ f(s) = \sqrt[3]{s} + 8 \ln(s)$$

$$4. \ h(w) = w^{-2/5}$$

$$5. \ R(\theta) = 6\theta^{-9} + 1.7e^\theta$$

$$6. \ V(r) = \frac{4}{3}\pi r^3$$

$$7. \ P(y) = \sqrt{2}e^y + y^2 + \ln(3)$$

$$8. \ u(x) = e^5x^2 + x^{2.2}$$

$$9. \ g(z) = 4 \ln(z) + \frac{3}{z}$$

$$10. \ f(x) = x^e + t$$