MA 223 FORMULA SHEET

Volume & Surface Area

Right Circular Cylinder

$$V = \pi r^2 h$$

$$SA = \begin{cases} 2\pi r^2 + 2\pi rh \\ \pi r^2 + 2\pi rh \end{cases}$$

Sphere

$$V = \frac{4}{3}\pi r^3$$

$$SA = 4\pi r^2$$

Interest Formulas

$$A = P(1 + \frac{r}{m})^{mt}$$

$$A = Pe^{rt}$$

Exponential Growth & Decay

$$Q(t) = Q_0 e^{kt}$$

$$Q(t) = Q_0 e^{-kt}$$