

# MA108 Concepts in Mathematics

## Handouts Containing Important Formulas and Procedures

### Area and Volume Formulas

Area of a square:  $A = s^2$

Area of a rectangle:  $A = lw$

Area of a parallelogram:  $A = bh$

Area of a triangle:  $A = \frac{1}{2}bh$

Area of a trapezoid:  $A = \frac{1}{2}h(a + b)$

Area of a circle:  $A = \pi r^2$

Volume of a rectangular solid:  $V = lwh$

Volume of a cube:  $V = s^3$

Volume of a pyramid:  $V = \frac{1}{3}Bh$  where B is the area of the base

Volume of a right circular cylinder:  $V = \pi r^2 h$

Volume of a cone:  $V = \frac{1}{3}\pi r^2 h$

Volume of a sphere:  $V = \frac{4}{3}\pi r^3$