MA 223 FINAL EXAM

FORMULAS PROVIDED:

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
$V = \frac{4}{3}\pi r^3$
$SA = 4\pi r^2$

Right Circular Cone
$V = \frac{1}{3}\pi r^2 h$
$SA = \pi r\sqrt{r^2 + h^2} + \pi r^2$

Interest Formulas

$$B(t) = P(1 + \tfrac{r}{k})^{kt}$$

$$B(t) = Pe^{rt}$$