MTH125 Exam 2 Formula Sheet

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

Volume of a cylinder $\qquad$ $V = \pi r^2 h$

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

Surface area of a sphere $\quad$ $A = 4\pi r^2$

Hyperbolic functions $\qquad$ $\sinh x = \frac{e^x - e^{-x}}{2}$ $\qquad$ $\cosh x = \frac{e^x + e^{-x}}{2}$

Pythagorean theorem $\qquad$ $c^2 = a^2 + b^2$

Law of cosines $\qquad$ $c^2 = a^2 + b^2 - 2ab\cos C$