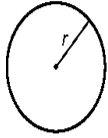


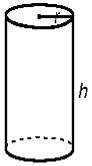
# Elementary Algebra Applied Math I Reference Sheet

**Circle**



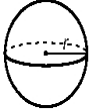
Area =  $\pi r^2$   
 Circumference =  $2\pi r$   
 Circumference =  $\pi d$

**Cylinder**



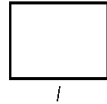
Volume =  $\pi r^2 h$   
 Surface Area =  $2\pi r^2 + 2\pi r h$

**Sphere**



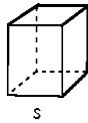
Volume =  $\frac{4}{3}\pi r^3$   
 Surface Area =  $4\pi r^2$

**Rectangle**



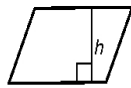
Area =  $lw$   
 Perimeter =  $2l + 2w$

**Cube**



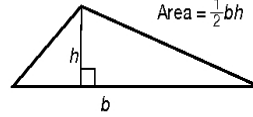
Volume =  $s^3$   
 Surface Area =  $6s^2$

**Parallelogram**



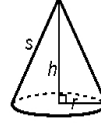
Area =  $bh$

**Triangle**



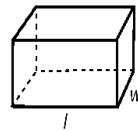
Area =  $\frac{1}{2}bh$

**Cone**



Volume =  $\frac{1}{3}\pi r^2 h$   
 Surface Area =  $\pi r^2 + \pi r s$

**Rectangular Prism**



Volume =  $lwh$   
 Surface Area =  $2wl + 2lh + 2wh$

**Formulas**

9) A truck and van left from Pomona in opposite directions. The truck traveled for 6 hours at 48 mph. The vehicles were 596 miles apart. Find the van's average speed.  
 10) A plane set out to Burbank at a speed of two hundred and sixty-seven mph. How many hours long was the flight to Burbank?

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