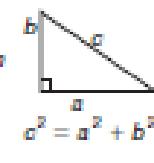
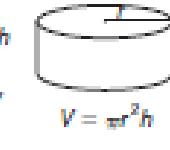
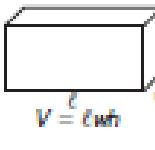
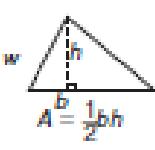
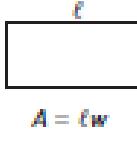


Mathematics Formula Sheets for End-of-Course Exams

Use at least two decimal place values when approximating square roots or trigonometric ratios.

| Description | Formula | Variables |
|-------------------|---|--|
| Arc Length | $L = \frac{m\widehat{BC}}{360^\circ} \pi d$ | L : Arc Length B, C : endpoints of arc d : diameter of the circle m : the measure of |
| Area of Sector | $A = \frac{m\widehat{BC}}{360^\circ} \pi r^2$ | A : Area of Sector B, C : endpoints of intercepted arc r : radius of the circle m : the measure of |
| Cylinder | $SA = 2\pi r^2 + 2\pi r h$ | SA : Surface Area r : radius of the base h : height |
| | $V = \pi r^2 h$ | V : Volume r : radius of the base h : height |
| Cone | $SA = \pi r^2 + \pi r l$ | SA : Surface Area r : radius of the base l : slant height |
| | $V = \frac{1}{3} Bh$ or $V = \frac{1}{3} \pi r^2 h$ | V : Volume r : radius of the base h : height B : area of the base |
| | $V = Bh$ | V : Volume B : area of the base H : height |
| Prism | $SA = 2B + Ph$ or $SA = 2B + L$ | SA : Surface Area B : area of the base P : Perimeter of the base h : height L : lateral surface area |
| | $V = \frac{1}{3} Bh$ | V : Volume B : area of the base h : height |
| Quadratic Formula | $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ | x : solution a, b, c : coefficients |
| Sphere | $V = \frac{4}{3} \pi r^3$ | V : Volume r : radius |
| | $SA = 4\pi r^2$ | SA : Surface Area r : radius |

Reference Information



The number of degrees of an arc in a circle is 360.

The measure in degrees of a straight angle is 180.

The sum of the measures in degrees of angles of a triangle is 180.