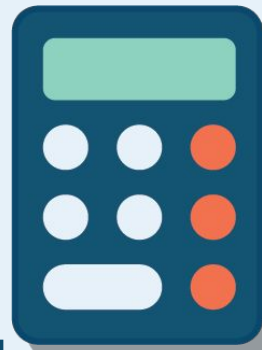


Regents Mathematics Reference Sheet



Graphing
Calculator
Required



Test Date

2020

Formulas

Triangle: $A = \frac{1}{2}bh$

Parallelogram: $A = bh$

Circle: $A = \pi r^2$

Circle: $C = \pi d$ or $C = 2\pi r$

General Prisms: $V = Bh$

Cylinder: $V = \pi r^2 h$

Sphere: $V = \frac{4}{3}\pi r^3$

Cone: $V = \frac{1}{3}\pi r^2 h$

Pyramid: $V = \frac{1}{3}Bh$

Pythagorean Theorem: $a^2 + b^2 = c^2$

Quadratic Formula: $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

Arithmetic Sequence: $a_n = a_1 + (n - 1)d$

Geometric Sequence: $a_n = a_1 r^{n-1}$

Geometric Series: $S_n = \frac{a_1 - a_1 r^n}{1 - r}$ where $r \neq 1$

Radians: 1 radian = $\frac{180}{\pi}$ degrees

Degrees: 1 degree = $\frac{\pi}{180}$ radians

Exponential Growth/Decay: $A = A_0 e^{k(t-t_0)} + B_0$



Conversions

1 inch = 2.54 centimeters

1 meter = 39.37 inches

1 mile = 5280 feet

1 mile = 1760 yards

1 mile = 1.609 kilometers

1 kilometer = 0.62 mile

1 pound = 16 ounces

1 pound = 0.454 kilograms

1 kilogram = 2.2 pounds

1 ton = 2000 pounds

1 cup = 8 fluid ounces

1 pint = 2 cups

1 quart = 2 pints

1 gallon = 3.785 liters

1 liter = 0.264 gallon

1 liter = 1000 cubic centimeters

