

Formulas that you may need on this test are found below.
 You may refer back to this page at any time during the mathematics test.
 You may use calculator π or the number 3.14 as an approximation of π .

2026
Grade 8

Exponential Properties

$$a^m \cdot a^n = a^{m+n}$$

$$(a^m)^n = a^{m \cdot n}$$

$$\frac{a^m}{a^n} = a^{m-n}$$

$$a^{-n} = \frac{1}{a^n}$$

Algebraic Equations

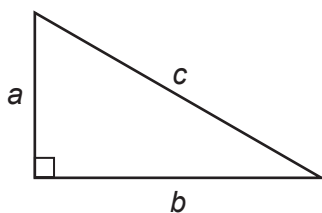
Slope: $m = \frac{y_2 - y_1}{x_2 - x_1}$

Slope-Intercept Form: $y = mx + b$

Point-Slope Form: $y - y_1 = m(x - x_1)$

Standard Form: $Ax + By = C$

Pythagorean Theorem

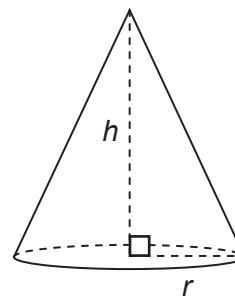


$$a^2 + b^2 = c^2$$

Distance Formula

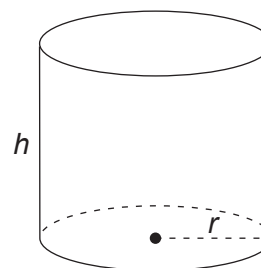
$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

Cone



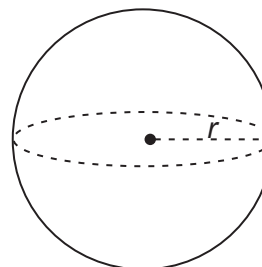
$$V = \frac{1}{3} \pi r^2 h$$

Cylinder



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

Sphere



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

A continuación se encuentran las fórmulas que podrías necesitar en este examen. Puedes volver a consultar esta página en cualquier momento durante el examen de matemáticas. Puedes usar π en la calculadora o el número 3.14 como una aproximación de π .

2026
8.º Grado

Propiedades Exponenciales

$$a^m \cdot a^n = a^{m+n}$$

$$(a^m)^n = a^{m \cdot n}$$

$$\frac{a^m}{a^n} = a^{m-n}$$

$$a^{-n} = \frac{1}{a^n}$$

Ecuaciones Algebraicas

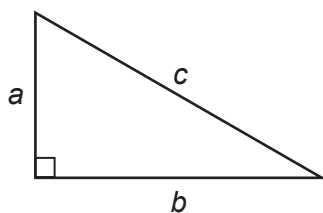
Pendiente: $m = \frac{y_2 - y_1}{x_2 - x_1}$

Forma pendiente-intersección: $y = mx + b$

Forma punto-pendiente: $y - y_1 = m(x - x_1)$

Forma estándar: $Ax + By = C$

Teorema de Pitágoras

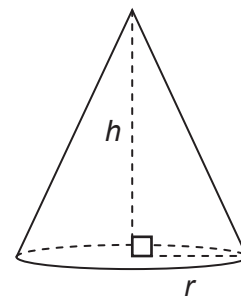


$$a^2 + b^2 = c^2$$

Fórmula de la distancia

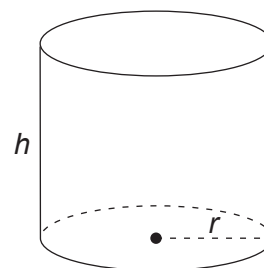
$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

Cono



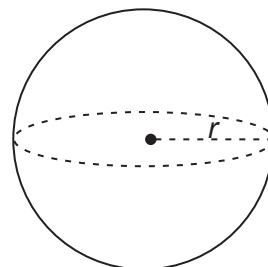
$$V = \frac{1}{3} \pi r^2 h$$

Cilindro



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

Esfera



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