This reference material will also be available to you during the exam. To access it, click on the Reference Materials icon located in the lower-left corner of the screen.

Definitions and Formulas

PROBABILITY

$P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$

$P(A \text{ and } B) = P(A)\,P(B|A) = P(B)\,P(A|B)$

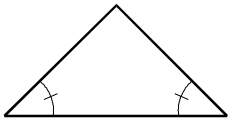
ALGEBRA

Slope $\dfrac{y_2 - y_1}{x_2 - x_1}$

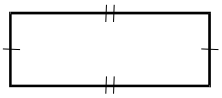
Distance Formula $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

GEOMETRY

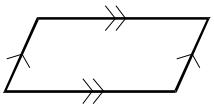
Congruent Angles



Congruent Sides



Parallel Sides



Circumference of a Circle

$C = 2\pi r$

VOLUME

Cylinder: (area of base) × height

Cone: $\frac{1}{3}$ (area of base) × height

Sphere: $\frac{4}{3}\pi$ (radius)^3

Prism: (area of base) × height

AREA

Triangle: $\frac{1}{2}$ base × height

Rhombus: $\frac{1}{2}\,\text{diagonal}_1 \times \text{diagonal}_2$

Trapezoid: $\frac{1}{2}$ height $(\text{base}_1 + \text{base}_2)$

Sphere: $4\pi r^2$

Circle: πr^2

Lateral surface area of cylinder: $2\pi rh$

END OF DEFINITIONS AND FORMULAS