Below are the formulas you may find useful as you work the problems. However, some of the formulas may not be used. You may refer to this page as you take the test.

AreaQuadratic EquationsRectangle/Parallelogram
$$A = bh$$
Standard Form: $y = ax^2 + bx + c$ Triangle $A = \frac{1}{2}bh$ Vertex Form: $y = a(x-h)^2 + k$ CircumferenceQuadratic Formula $C = \pi d$ $\pi \approx 3.14$ $C = 2\pi r$ Quadratic FormulaVolumeConic SectionsRectangular Prism/Cylinder $V = Bh$ Parabola: $y - k = \frac{1}{4p}(x-h)^2$ Pyramid/Cone $V = \frac{1}{3}Bh$ Parabola: $y - k = \frac{1}{4p}(x-h)^2$ Sphere $V = \frac{4}{3}\pi r^3$ Circle: $(x-h)^2 + (y-k)^2 = r^2$ Surface AreaDistance FormulaCylinder $SA = 2\pi r^2 + 2\pi rh$ $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$ Sphere $SA = 4\pi r^2$ Conditional Probability

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

$$\sin(\theta) = \frac{\text{opp}}{\text{hyp}}; \cos(\theta) = \frac{\text{adj}}{\text{hyp}}; \tan(\theta) = \frac{\text{opp}}{\text{adj}}$$