Algebra 2 EOC FSA Mathematics Reference Sheet

Customary Conversions
1 foot = 12 inches
1 yard = 3 feet
1 mile = 5,280 feet
1 mile = 1,760 yards

1 cup = 8 fluid ounces
1 pint = 2 cups
1 quart = 2 pints
1 gallon = 4 quarts

1 pound = 16 ounces
1 ton = 2,000 pounds

Metric Conversions
1 meter = 100 centimeters
1 meter = 1000 millimeters
1 kilometer = 1000 meters

1 liter = 1000 milliliters

1 gram = 1000 milligrams
1 kilogram = 1000 grams

Time Conversions
1 minute = 60 seconds
1 hour = 60 minutes
1 day = 24 hours
1 year = 365 days
1 year = 52 weeks
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Formulas

\[ x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}, \] where \( a, b, \) and \( c \) are coefficients in an equation of the
form \( ax^2 + bx + c = 0 \)

\[ \log_b a = \frac{\log a}{\log b} \]

\[ \sin A^\circ = \frac{\text{opposite}}{\text{hypotenuse}} \]

\[ \cos A^\circ = \frac{\text{adjacent}}{\text{hypotenuse}} \]

\[ \tan A^\circ = \frac{\text{opposite}}{\text{adjacent}} \]

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

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

\[ z = \frac{(x - \mu)}{\sigma}, \text{ where } \mu = \text{mean and } \sigma = \text{standard deviation} \]
Table of Standard Normal Probabilities for Negative z-scores

$$z = \frac{(x - \mu)}{\sigma}$$, where $\mu$ = mean and $\sigma$ = standard deviation

Table of Standard Normal Probabilities for Positive z-scores