| Formula | Description |
| :--- | :--- |
| $d=\sqrt{\left(x_{2}-x_{1}\right)^{2}+\left(y_{2}-y_{1}\right)^{2}}$ | Distance formula |
| $\left(\frac{x_{1}+x_{2}}{2}, \frac{y_{1}+y_{2}}{2}\right)$ | Midpoint formula |
| $m=\frac{\Delta y}{\Delta x}=\frac{y_{2}-y_{1}}{x_{2}-x_{1}}$ | Slope |
| $y=m x+b$ | Slope-intercept form of line |
| $a^{2}+b^{2}=c^{2}$ | Pythagorean theorem |
| $D=R \cdot T$ | Distance |

## CONVERSIONS FOR UNITS OF MEASURE

| U.S. Units of Length | U.S. Units of Capacity | U.S. Units of Weight |
| :--- | :--- | :--- |
| 12 inches $=1$ foot | 8 ounces = 1 cup | 16 ounces $=1$ pound |
| 3 feet $=1$ yard | 2 cups $=1$ pint | 2,000 pounds $=1$ ton |
| 5,280 feet $=1$ mile | 2 pints $=1$ quart |  |
| 1,760 yards $=1$ mile | 4 quarts = 1 gallon |  |

