

Math Pre-Calculus 10 Formula Sheet

Linear Relations

The Slope of a Line:

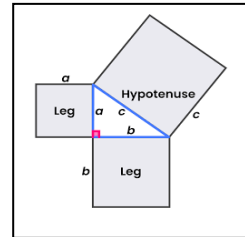
- Slope = $m = \frac{\text{rise}}{\text{run}} = \frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1}$

The Equation of a Line:

- Slope-Intercept Form: $y = mx + b$
- General Form: $Ax + By + C = 0$
- Point-Slope Form: $y - y_1 = m(x - x_1)$

Trigonometry (Right Triangles)

- All triangle angles add to 180°
- Pythagorean Theorem: $a^2 + b^2 = c^2$



- Remember to check that your calculator is in DEGREE mode.

○ SOH

CAH

TOA

○ $\sin\theta = \frac{\text{opposite}}{\text{hypotenuse}}$

$\cos\theta = \frac{\text{adjacent}}{\text{hypotenuse}}$

$\tan\theta = \frac{\text{opposite}}{\text{adjacent}}$