



# Linear Equations & Inequalities

▼ Class

Algebra 2

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Equations of a Line

Flip inequality signs when you **MULTIPLY** or **DIVIDE** by *negative* values.

- **Or** → two different sets of values
- **And** → joined part of a set of values

## Equations of a Line

**Slope-Intercept** →  $y = mx + b$

- $m$  → slope
- $b$  → y-intercept

**Point-Slope** →  $y - y_1 = m(x - x_1)$

- $m$  → slope
- $(x_1, y_1)$  → point on the line

**Standard** →  $ax + by = c$

- $a$  is **POSITIVE**