**LINEAR FUNCTIONS (equation of a lines🡪2 forms: slope-intercept & General/Standard Form)**

1. Find slopes
   1. Given a graph🡪 slope triangle
   2. Given 2 points🡪 use gradient formula (in booklet under Geometry)
   3. Gradient of horizontal and vertical Lines
   4. Gradient of perpendicular and parallel lines
2. Given the equation of a line, verify if a point is on the line
3. Understand what are x-intercepts and a y-intercepts:
   1. x-intercepts: (x, 0)
   2. y-intercepts: (0, y)
4. Equations of horizontal and vertical lines
   1. Horizontal lines🡪 y = a constant
   2. Vertical lines🡪 x = a constant
5. Graph any line
6. Give the equation of any line given
   1. Slope and 1 point
   2. 2 points
   3. a graph
   4. both intercepts
   5. the line is horizontal or vertical AND a point
   6. the line is parallel or perpendicular to a given line and a point is also given.

**COORDINATE GEOMETRY**

1. MIDPOINT (formula in booklet, in prior-learning)
   1. Given the 2 endpoints of a segment, find the coordinates of the midpoint
   2. Given the coordinates of 1 endpoint and the midpoint, calculate the coordinates of the other endpoint
2. DISTANCE FORMULA (formula in booklet, in prior-learning)
   1. Given the coordinates of 2 endpoints of a segment, find its length
   2. Given the coordinates of 1 endpoint and the midpoint of a segment, find its length