Lecture No 4 practice Qs

Q1. Find the slopes of the sides of the triangle with vertices (-1, 3), (5, 4) and (2, 8).

Q2. Find equation of the line passing through the point (1,2) and having slope 3.

Q3. Find the slope-intercept form of the equation of the line that passes through the point (5,-3) and perpendicular to line $y = 2x + 1$.

Q4. Find the slope and angle of inclination of the line joining the points (2, 3) and (-1, 2).

Q5. By means of slopes, Show that the points lie on the same line

A (-3, 4); B (3, 2); C (6, 1)

Answer Key

Q1.   Slopes are: $\dfrac{1}{6}, \; -\dfrac{4}{3}, \; \dfrac{5}{3}$

Q2. $y = 3x - 1$

Q3. $y = -\dfrac{1}{2}x - \dfrac{1}{2}$

Q4. $m = \dfrac{1}{3}; \quad \theta = 18.43^{o}$