

# **Geometry - Angles & Lines**

## **Grade 10 | Difficulty: Medium**

1. Find the measure of angle  $x$  in a parallel line transversal diagram.
2. Prove that the sum of angles in a triangle is  $180^\circ$ .
3. Find the length of the hypotenuse of a right triangle with legs 6 cm and 8 cm.
4. Determine if two given lines are perpendicular.
5. Find the equation of a line parallel to  $y = 2x - 5$  that passes through  $(3, 4)$ .