

Example The inclination of the line $x - y + 3 = 0$ with the positive direction of x -axis is

- (A) 45° (B) 135° (C) -45° (D) -135°

Solution (A) is the correct answer. The equation of the line $x - y + 3 = 0$ can be rewritten as $y = x + 3 \Rightarrow m = \tan \theta = 1$ and hence $\theta = 45^\circ$.