



QT Perpendicular lines

1. Write down the equation of a line perpendicular to $y = 4x + 6$

2. Write down the equation of a line perpendicular to $y = 4x + 6$ which passes through $(0, -4)$

3. Find the equation of a line perpendicular to $4y - 2x + 8 = 0$

4. Find the equation of a line perpendicular to $y = -\frac{4}{3}x - 6$ which passes through $(0, 3)$

5. Find the equation of a line perpendicular to $2y - 3x + 5 = 0$ which passes through $(0, -4)$



6. Line A passes through the points (4,3) and (8,6). Find the equation of the line perpendicular to line A that passes through (6,12)

7. Line A passes through the points (1,1) and (4,7)
Line B passes through the points (7,4) and (11,6)
Determine whether Line A and line B are perpendicular.

8. Line A passes through the points (-5,-1) and (-1,11)
Line B passes through the points (-4,1) and (k, 5)
Line A and B are perpendicular.
Find the value of k.