GAC004 CA 2 (Equation of a Straight Line

1) Write down an equation of a line that is parallel to $y = 6x + 5$ and passes through (0, 7)

2) Write down an equation of a line that is parallel to $x + 2y = 4$ and passes through (0, 3)

3) Write down an equation of a line that is perpendicular to $y = \frac{1}{2}x + 3$ and passes through (0, -1)

4) Write down an equation of a line that is perpendicular to $3x - y = 1$ and passes through (0, 9)

5) A straight line L passes through the points (0,6) and (4, 2). Another straight line M passes through the point (0,1) and it's perpendicular to line L. Find the equation of the line M.

6) A straight line P passes through the points (0,6) and (4, 2). Another straight line Q passes through the point (0,1) and it's parallel to line L. Find the equation of the line M.

7) The point C is (5, -2) and the point D is (11, 1). Find the equation of a line perpendicular to CD passing through the origin.

8) The line L passese through the points (-4,2) and (2,-2). The line M passes through the points (3, 8) and (2, 2). Are the lines M and L perpendicular? Write YES or NO.

9) The line L passese through the points (-4,2) and (2,-2). The line M passes through the points (3, 5) and (2, 2). Are the lines M and L perpendicular or parallel?

10) A, B and C are coordinates of (2, 9), (10, -7) and (6, k) respectively. Given that AB is perpendicular to AC, find the value of K.

LIVEWORKSHEETS