PARALLEL AND PERP. LINES IN THE COORDINATE PLANE





In a coordinate plane, two distinct lines are if and only if their slopes

are _____



In a coordinate plane, two lines are ______ if and only if their slopes

are

1. One endpoint of AB is A(-3, 10). The midpoint is (5, 6). Find the coordinates of the other endpoint.

2. Find the slope of the line through (3, 7) and (9, –8). Slope =

One line passes through (-1, -4) and (2, -10). Find the slope of a parallel line.
Slope =

 A(-1, 1), B(4, -1), C(3, 4) and D(-1, 6) are the vertices of quadrilateral ABCD. Are the diagonals of ABCD perpendicular? (Draw a sketch and follow through with work to help you find out.)

5. Write an equation of the line passing through the point (-1,1) this parallel to the line y=2x-3.

6. Write an equation of the line passing through the point (2,3) this perpendicular to the line 2x + y = 2.

7. Find the equation of the perpendicular bisector of the segment with endpoints of (2, 9) and (-6,-7).