## 3.9 <br> PARALLEL AND PERP. LINES IN THE COORDINATE PLANE

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## Practice

1. One endpoint of $\overline{A B}$ is $\boldsymbol{A}(-3,10)$. The midpoint is $(5,6)$. Find the coordinates of the other endpoint.

## Practice

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

## Practice

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

## Practice

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

## Practice

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

## Practice

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

## Practice

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