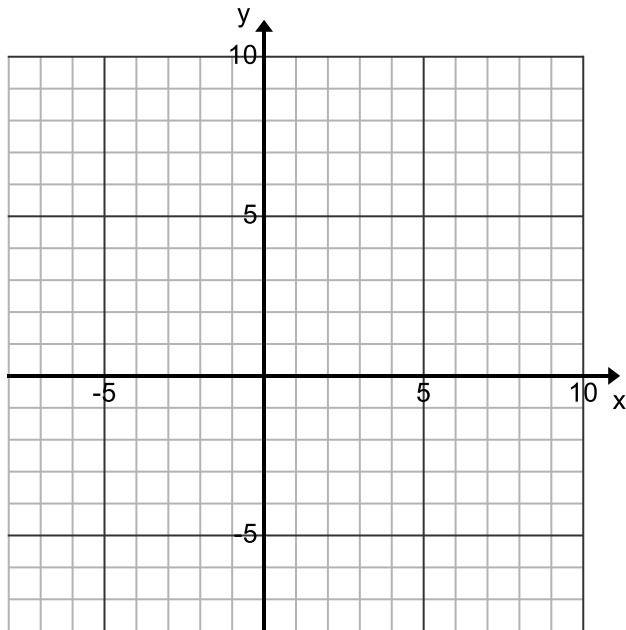


Plot the parallelogram ABCD on this grid



Which segments are diagonals?

Are the diagonals congruent?

Do the diagonals bisect each other?

Do the diagonals meet at a 90 degree angle?

Are all of the sides congruent?

Do the sides meet at a 90 degree angle?

Is this quadrilateral, a square, a parallelogram or neither?

Determine each of the following based on the fact that Quadrilateral ABCD is a parallelogram and we know $A(-5,0)$ $B(1,8)$ and $D(3,-6)$

$C(\quad , \quad)$

$AB = \quad$ slope of $AB = \quad$

State the midpoint of AB

Midpoint of $AB (\quad , \quad)$

$BC = \quad$ slope of $BC = \quad$

Midpoint of $BC (\quad , \quad)$

$CD = \quad$ slope of $CD = \quad$

Midpoint of $CD (\quad , \quad)$

$AD = \quad$ slope of $AD = \quad$

Midpoint of $AD (\quad , \quad)$

State the parallel sides, if possible

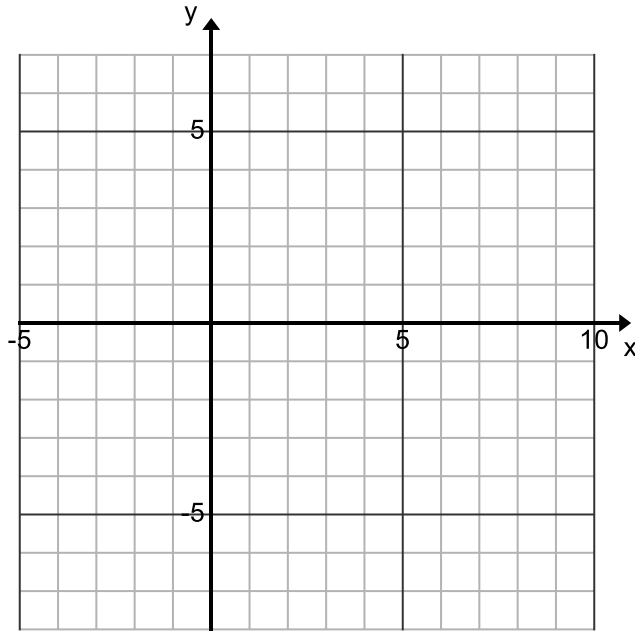
$BD = \quad$ slope of $BD = \quad$

Midpoint of $BD (\quad , \quad)$

$AC = \quad$ slope of $AC = \quad$

Midpoint of $AC (\quad , \quad)$

Plot the parallelogram ABCD on this grid



We know A(-4,-2) B (1, 5) C (8, 0) and D (3,-6)

AB = _____ slope of AB = _____

State the midpoint of AB

Midpoint of AB (,)

BC = _____ slope of BC = _____

Midpoint of BC (,)

CD = _____ slope of CD = _____

Midpoint of CD (,)

AD = _____ slope of AD = _____

Midpoint of AD (,)

State the parallel sides, if possible

BD = _____ slope of BD = _____

Midpoint of BD (,)

AC = _____ slope of AC = _____

Midpoint of AC (,)

Which segments are diagonals?

Are the diagonals congruent?

Do the diagonals bisect each other?

Do the diagonals meet at a 90 degree angle?

Are all of the sides congruent?

Do the sides meet at a 90 degree angle?

Is this quadrilateral, a square, a parallelogram or neither?