Name: _____   Date _____

Topic: _Mid Point Segment – Worksheet 1d_

1. Find the midpoint of the segment connecting the points (2, 4) and (5, 6).

2. Find the midpoint of the segment connecting the points (x, y) and (x, z).

3. O is the midpoint of YZ. The coordinates of Y are (4, 6) and the coordinates of O are (2, 5). Find the coordinates of Z.

4. The coordinates of quadrilateral HIJK are H (5, 6), I (-4, 7), J (5, 7), and K(6,6).
Do the diagonals bisect each other?

5. N is the midpoint of GH. The coordinates of G are (4, 3) and the coordinates of N are (5, 6).
Find the coordinates of H.

6. Find the midpoint of the segment connecting the points (4, 7) and (-3,-5).
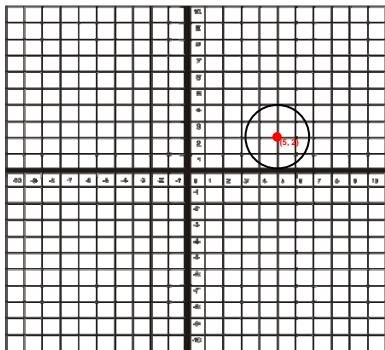
7. FG is the diameter of a circle whose center is the point (5, 2) as shown in the figure on the left. If the coordinates of F are (5,4), find the coordinates of G.

8. FG is the diameter of a circle whose center is the point (5, 2). If the coordinates of F are (3,-4), find the coordinates of G.

Ron planted two trees on a planning grid at coordinates (6, 3) and (-5, 7). He wants to plant a row of hedges such that any hedge is the same distance from each of the two trees.

Question **9 & 10** are based on the information on the left.

9. Determine the midpoint of the line segment connecting the two trees

**10.** Determine the slope of the line connecting the trees.

Name: _____   Date _____

Topic: _Mid Point Segment - Worksheet 2_

1. Find the midpoint of the segment connecting the points (3, 6) and (6, 3).

2. Find the midpoint of the segment connecting the points (s, t) and (s, n).

3. D is the midpoint of AB. The coordinates of A are (5, 7) and the coordinates of D are (3, 8). Find the coordinates of B.

4. The coordinates of quadrilateral WXYZ are W (4, 7), X (3, 5), Y(7, 8), and Z(8,10). Do the diagonals bisect each other?

5. P is the midpoint of MN. The coordinates of M are (5, 2) and the coordinates of P are (7, 5). Find the coordinates of N.

6. Find the midpoint of the segment connecting the points (5, 6) and (-2,-7).
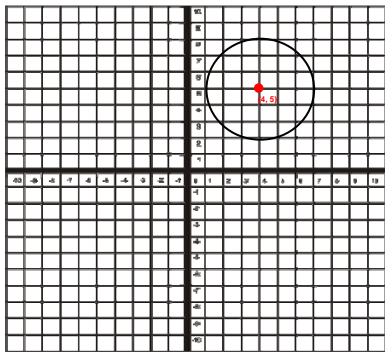
7. MN is the diameter of a circle whose center is the point (4, 5) as shown in the figure on the left. If the coordinates of M are (7,6), find the coordinates of N.

8. MN is the diameter of a circle whose center is the point (4, 5). If the coordinates of M are (5, 2), find the coordinates of N.

Ron planted two trees on a planning grid at coordinates (0, 8) and (12, 4). He wants to plant a row of hedges such that any hedge is the same distance from each of the two trees.

Question **9 & 10** are based on the information on the left.

9. Determine the midpoint of the line segment connecting the two trees

10. Determine the slope of the line connecting the trees.

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Name: _____

Date _____

Topic: _Mid Point Segment - Worksheet 3_

1. Find the midpoint of the segment connecting the points (4, 4) and (5,6).

2. Find the midpoint of the segment connecting the points (p, r) and (p, s).

3. P is the midpoint of DE. The coordinates of D are (4, 6) and the coordinates of P are (2, 3). Find the coordinates of E.

4. The coordinates of quadrilateral ABCD are A (3, 4), B (2, 7), C (2, 8), and D (5,3).
Do the diagonals bisect each other?

5. N is the midpoint of XY. The coordinates of X are (6, 3) and the coordinates of N are (4.6, 6).
Find the coordinates of Y.

6. Find the midpoint of the segment connecting the points (2, 4) and (-5,-4).
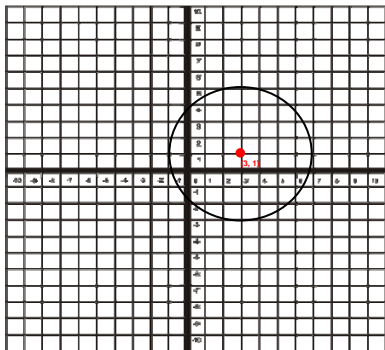
7. MN is the diameter of a circle whose center is the point (3, 1) as shown in the figure on the left. If the coordinates of M are (7,1), find the coordinates of N.

8. MN is the diameter of a circle whose center is the point (3, 1). If the coordinates of M are (3,5), find the coordinates of N.

Ron planted two trees on a planning grid at coordinates (4, 6) and (-9, 3). He wants to plant a row of hedges such that any hedge is the same distance from each of the two trees.

Question **9 & 10** are based on the information on the left.

9. Determine the midpoint of the line segment connecting the two trees

10. Determine the slope of the line connecting the trees.

Name: _____

Date _____

Topic: _Mid Point Segment - Worksheet 4_

1. Find the midpoint of the segment connecting the points (4, 8) and (3,7).

2. Find the midpoint of the segment connecting the points (k, g) and (k, h).

3. J is the midpoint of FG. The coordinates of F are (6, 4) and the coordinates of J are (8, 3). Find the coordinates of G.

4. The coordinates of quadrilateral ABCD are A (5, 9), B (6, 4), C (2, 4), and D (1,9). Do the diagonals bisect each other?

5. Q is the midpoint of RS. The coordinates of R are (6, 3) and the coordinates of Q are (5, 4). Find the coordinates of S.

6. Find the midpoint of the segment connecting the points (4, 8) and (-3,-6).
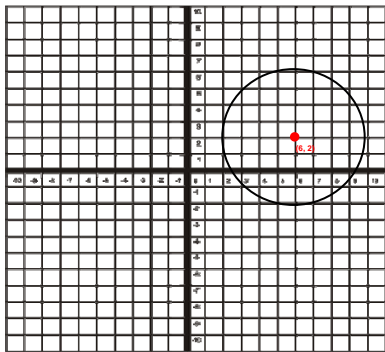
7. ST is the diameter of a circle whose center is the point (6, 2) as shown in the figure on the left. If the coordinates of S are (7,6), find the coordinates of T.

8. ST is the diameter of a circle whose center is the point (6, 2). If the coordinates of S are (6,-2), find the coordinates of T.

Ron planted two trees on a planning grid at coordinates (3, 4) and (6, 5). He wants to plant a row of hedges such that any hedge is the same distance from each of the two trees.

Question 9 & 10 are based on the information on the left.

9. Determine the midpoint of the line segment connecting the two trees

10. Determine the slope of the line connecting the trees.

Name: _____

Date _____

Topic: *Mid Point Segment - Worksheet 5*

1. Find the midpoint of the segment connecting the points (3, 5) and (6,7).

2. Find the midpoint of the segment connecting the points (b, d) and (b, e).

3. C is the midpoint of PQ. The coordinates of P are (5, 4) and the coordinates of C are (3, 4). Find the coordinates of Q.

4. The coordinates of quadrilateral LMNO are L (4, 5), M (6, 4), N (3, 6), and O (5,5). Do the diagonals bisect each other?

5. L is the midpoint of RS. The coordinates of R are (5, 2) and the coordinates of L are (4.5, 5). Find the coordinates of S.

6. Find the midpoint of the segment connecting the points (3, 6) and (-4,-6).
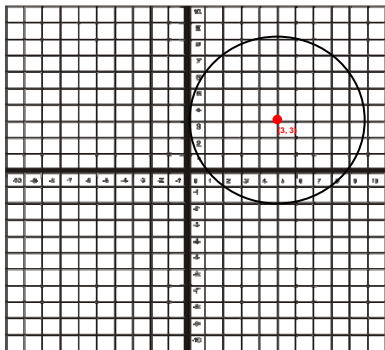
7. UV is the diameter of a circle whose center is the point (3, 3) as shown in the figure on the left. If the coordinates of U are (8,7), find the coordinates of V.

8. UV is the diameter of a circle whose center is the point (3, 3). If the coordinates of U are (4,8), find the coordinates of V.

John planted two trees on a planning grid at coordinates (4, 9) and (2, 4). He wants to plant a row of hedges such that any hedge is the same distance from each of the two trees.

Question 9 & 10 are based on the information on the left.

9. Determine the midpoint of the line segment connecting the two trees

10. Determine the slope of the line connecting the trees.