

**Assignment 9: DISTANCE AND MIDPOINT FORMULA, DIVISIBILITY****Find the distance between each pair of points.**

1)  $(-6, 6), (-3, -2)$

2)  $(-2, 1), (2, -3)$

3)  $(1, 6), (-1, 6)$

4)  $(4, -7), (4, 5)$

5)  $(8, 5), (-8, 4)$

6)  $(-6, -7), (6, 3)$

**Find the midpoint of the line segment with the given endpoints.**

7)  $(-9, 1), (-10, -4)$

8)  $(-6, -10), (4, 6)$

9)  $(-2, 7), (10, -5)$

10)  $(1, 3), (3, -7)$

11)  $(4, -8), (9, 3)$

12)  $(7, 9), (2, -8)$

**State if the first number is divisible by the second number.**

13) 58 by 2

14) 60 by 3

15) 60 by 10

16) 65 by 5

17) 76 by 3

18) 63 by 9

19) 79 by 2

20) 81 by 9

21) 85 by 5

22) 91 by 2

23) 93 by 3

24) 90 by 10

25) 50 by 5

26) 45 by 9

27) 56 by 3

28) 59 by 2

**Assignment 9: DISTANCE AND MIDPOINT FORMULA, DIVISIBILITY****Find the distance between each pair of points.**

1)  $(-6, 6), (-3, -2)$

$\sqrt{73}$

2)  $(-2, 1), (2, -3)$

$4\sqrt{2}$

3)  $(1, 6), (-1, 6)$

2

4)  $(4, -7), (4, 5)$

12

5)  $(8, 5), (-8, 4)$

$\sqrt{257}$

6)  $(-6, -7), (6, 3)$

$2\sqrt{61}$

**Find the midpoint of the line segment with the given endpoints.**

7)  $(-9, 1), (-10, -4)$

$\left(-9\frac{1}{2}, -1\frac{1}{2}\right)$

8)  $(-6, -10), (4, 6)$

$(-1, -2)$

9)  $(-2, 7), (10, -5)$

$(4, 1)$

10)  $(1, 3), (3, -7)$

$(2, -2)$

11)  $(4, -8), (9, 3)$

$\left(6\frac{1}{2}, -2\frac{1}{2}\right)$

12)  $(7, 9), (2, -8)$

$\left(4\frac{1}{2}, \frac{1}{2}\right)$

**State if the first number is divisible by the second number.**

13) 58 by 2

Yes

14) 60 by 3

Yes

15) 60 by 10

Yes

16) 65 by 5

Yes

17) 76 by 3

No

18) 63 by 9

Yes

19) 79 by 2

No

20) 81 by 9

Yes

21) 85 by 5

Yes

22) 91 by 2

No

23) 93 by 3

Yes

24) 90 by 10

Yes

25) 50 by 5

Yes

26) 45 by 9

Yes

27) 56 by 3

No

28) 59 by 2

No