

Class Name : **H. Geometry**

Instructor Name : **Mr. Aspiras**

Student Name : \_\_\_\_\_

Instructor Note : **This assignment is designed to help prepare you for the beginning of Geometry. Try not to use a calculator. Instead, try to do as many calculations as you can with only pencil and paper. Be sure to include, and clearly indicate, all final answers on this form. Attach any extra paper used to the back of the assignment.**

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### Question 1 of 54

Solve for  $x$ .

$$10 = x + 3$$

### Question 2 of 54

Solve for  $y$ .

$$5 = 4 + y$$

### Question 3 of 54

Solve for  $w$ .

$$4 + w = -8$$

### Question 4 of 54

Solve for  $v$ .

$$v - 9 = -2$$

### Question 5 of 54

Solve for  $v$ .

$$v + \frac{3}{4} = \frac{1}{2}$$

Simplify your answer as much as possible.

### Question 6 of 54

Solve for  $w$ .

$$w - \frac{1}{2} = -\frac{3}{5}$$

Simplify your answer as much as possible.

### Question 7 of 54

Solve for  $v$ .

$$85 = 5v$$

Simplify your answer as much as possible.

### Question 8 of 54

Solve for  $u$ .

$$84 = 4u$$

Simplify your answer as much as possible.

### Question 9 of 54

Solve for  $a$ .

$$4 = 20a$$

Simplify your answer as much as possible.

### Question 10 of 54

Solve for  $m$ .

$$28m = 7$$

Simplify your answer as much as possible.

### Question 11 of 54

Solve for  $v$ .

$$42 = \frac{7}{2}v$$

Simplify your answer as much as possible.

### Question 12 of 54

Solve for  $v$ .

$$\frac{6}{5}v = 30$$

Simplify your answer as much as possible.

### Question 13 of 54

Solve for  $w$ .

$$-22 = -2w$$

Simplify your answer as much as possible.

### Question 14 of 54

Solve for  $w$ .

$$2w = -18$$

Simplify your answer as much as possible.

### Question 15 of 54

Solve for  $w$ .

$$-30 = -\frac{6}{7}w$$

Simplify your answer as much as possible.

### Question 16 of 54

Solve for  $v$ .

$$-\frac{7}{6}v = -35$$

Simplify your answer as much as possible.

**Question 17 of 54**

Solve for  $u$ .

$$3u + 15 = 66$$

Simplify your answer as much as possible.

**Question 18 of 54**

Solve for  $w$ .

$$5w + 16 = 91$$

Simplify your answer as much as possible.

**Question 19 of 54**

Solve for  $x$ .

$$185 = 2 - x$$

**Question 20 of 54**

Solve for  $u$ .

$$6 - u = 295$$

**Question 21 of 54**

Solve for  $u$ .

$$-17 = 3u + 4$$

Simplify your answer as much as possible.

**Question 22 of 54**

Solve for  $v$ .

$$-11 = -3 + 2v$$

Simplify your answer as much as possible.

**Question 23 of 54**

Solve for  $u$ .

$$2(3u - 7) = 16$$

Simplify your answer as much as possible.

#### Question 24 of 54

Solve for  $w$ .

$$2(2w + 7) = 42$$

Simplify your answer as much as possible.

#### Question 25 of 54

Solve for  $u$ .

$$14u - 6u = 24$$

Simplify your answer as much as possible.

#### Question 26 of 54

Solve for  $y$ .

$$3y + 4y = 28$$

Simplify your answer as much as possible.

#### Question 27 of 54

Solve for  $v$ .

$$7v + 17 - 12v = -38$$

Simplify your answer as much as possible.

#### Question 28 of 54

Solve for  $u$ .

$$28 = -6u - 12 + 2u$$

Simplify your answer as much as possible.

#### Question 29 of 54

Solve for  $u$ .

$$6u = 35 + u$$

Simplify your answer as much as possible.

### Question 30 of 54

Solve for  $y$ .

$$3y = 72 - 5y$$

Simplify your answer as much as possible.

### Question 31 of 54

Solve for  $x$ .

$$6x + 5 = 8x + 11$$

Simplify your answer as much as possible.

### Question 32 of 54

Solve for  $u$ .

$$-2u + 2 = -7u + 17$$

Simplify your answer as much as possible.

### Question 33 of 54

Solve for  $y$ .

$$2(y - 8) - 7y = -36$$

Simplify your answer as much as possible.

### Question 34 of 54

Solve for  $v$ .

$$-14 = 3(v + 2) - 8v$$

Simplify your answer as much as possible.

### Question 35 of 54

Solve for  $u$ .

$$8u - 36 = 6(u - 9)$$

Simplify your answer as much as possible.

### Question 36 of 54

Solve for  $u$ .

$$3(u + 7) = -6u + 39$$

Simplify your answer as much as possible.

### Question 37 of 54

Solve for  $y$ .

$$-4(y + 1) = 2y - 8 + 3(2y + 4)$$

Simplify your answer as much as possible.

### Question 38 of 54

Solve for  $w$ .

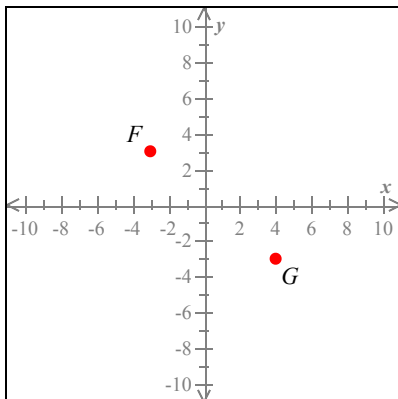
$$4(w + 3) = -2(4w - 5) + 6w$$

Simplify your answer as much as possible.

### Question 39 of 54

Calculate the distance between the points  $F = (-3, 3)$  and  $G = (4, -3)$  in the coordinate plane.

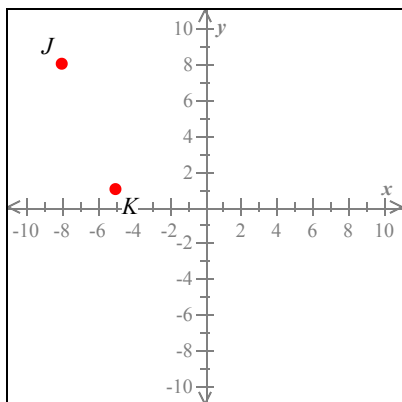
Give an exact answer (not a decimal approximation).



### Question 40 of 54

Calculate the distance between the points  $J = (-8, 8)$  and  $K = (-5, 1)$  in the coordinate plane.

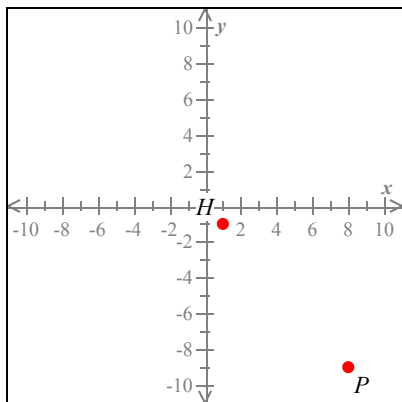
Give an exact answer (not a decimal approximation).



**Question 41 of 54**

Calculate the distance between the points  $H = (1, -1)$  and  $P = (8, -9)$  in the coordinate plane.

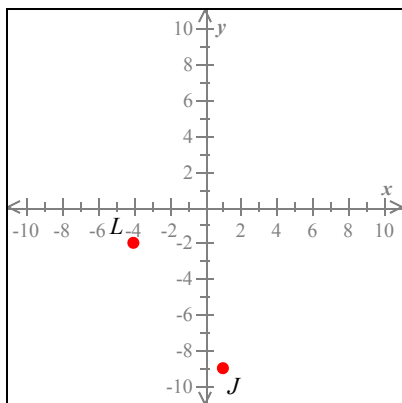
Give an exact answer (not a decimal approximation).



**Question 42 of 54**

Calculate the distance between the points  $L = (-4, -2)$  and  $J = (1, -9)$  in the coordinate plane.

Give an exact answer (not a decimal approximation).

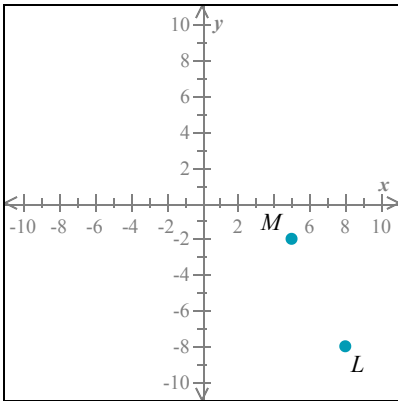




**Question 43 of 54**

Calculate the distance between the points  $M = (5, -2)$  and  $L = (8, -8)$  in the coordinate plane.

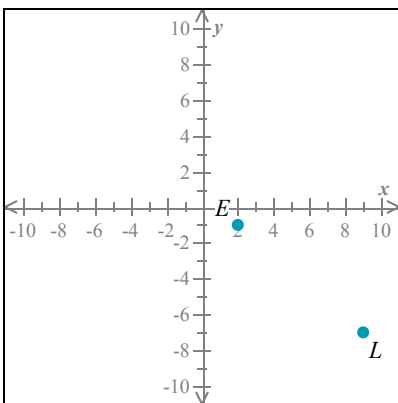
Round your answer to the nearest hundredth.



**Question 44 of 54**

Calculate the distance between the points  $E = (2, -1)$  and  $L = (9, -7)$  in the coordinate plane.

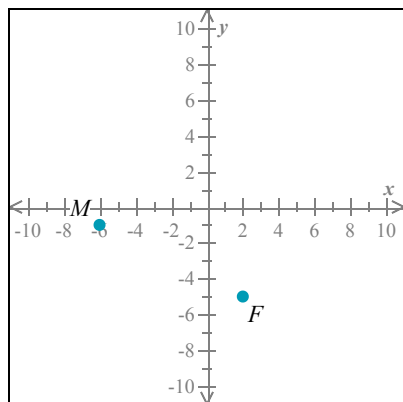
Round your answer to the nearest hundredth.



**Question 45 of 54**

Calculate the distance between the points  $M = (-6, -1)$  and  $F = (2, -5)$  in the coordinate plane.

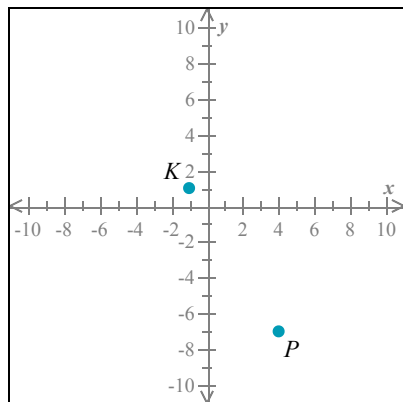
Round your answer to the nearest hundredth.



### Question 46 of 54

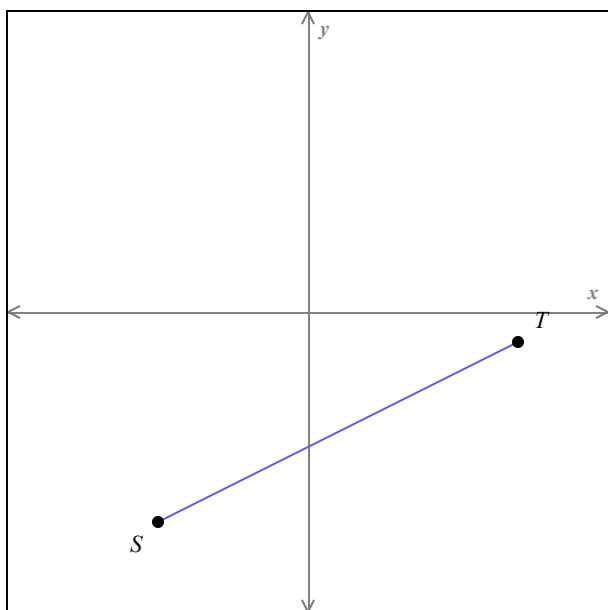
Calculate the distance between the points  $K = (-1, 1)$  and  $P = (4, -7)$  in the coordinate plane.

Round your answer to the nearest hundredth.



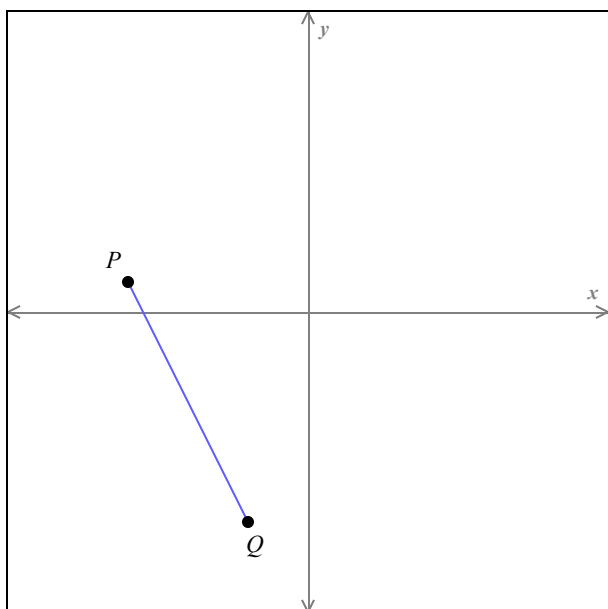
### Question 47 of 54

Find the midpoint  $M$  of the line segment joining the points  $S = (-5, -7)$  and  $T = (7, -1)$ .



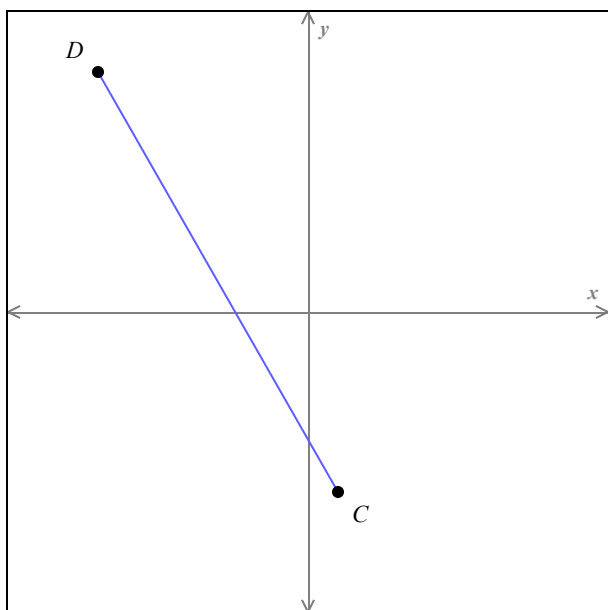
**Question 48 of 54**

Find the midpoint  $M$  of the line segment joining the points  $P = (-6, 1)$  and  $Q = (-2, -7)$ .



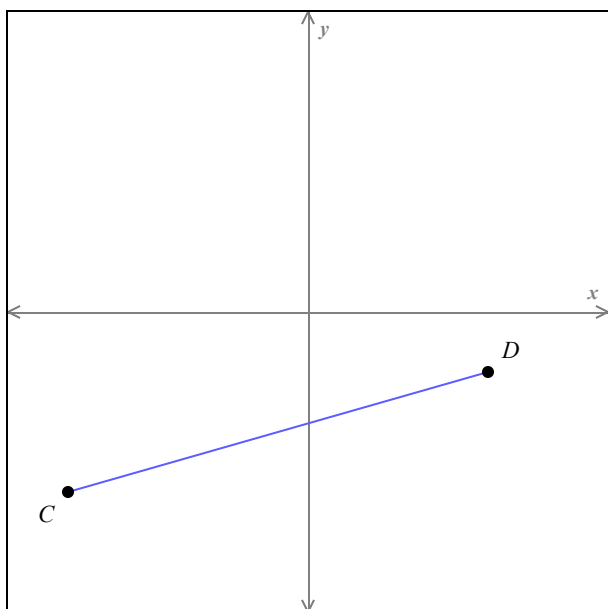
**Question 49 of 54**

Find the midpoint  $M$  of the line segment joining the points  $C = (1, -6)$  and  $D = (-7, 8)$ .



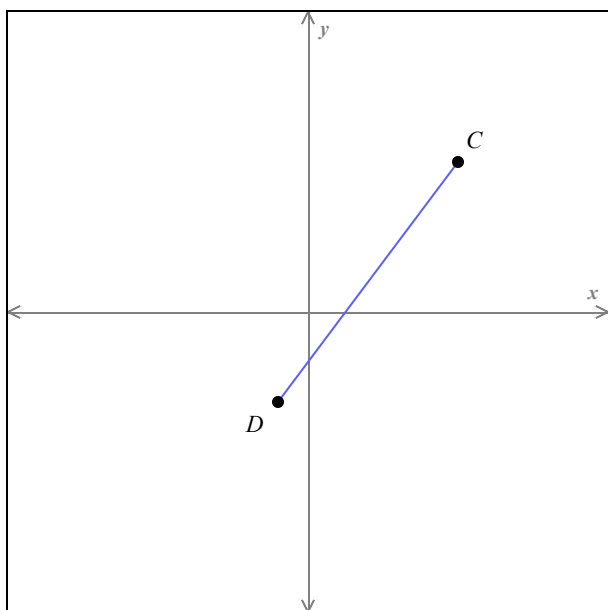
**Question 50 of 54**

Find the midpoint  $M$  of the line segment joining the points  $C = (-8, -6)$  and  $D = (6, -2)$ .



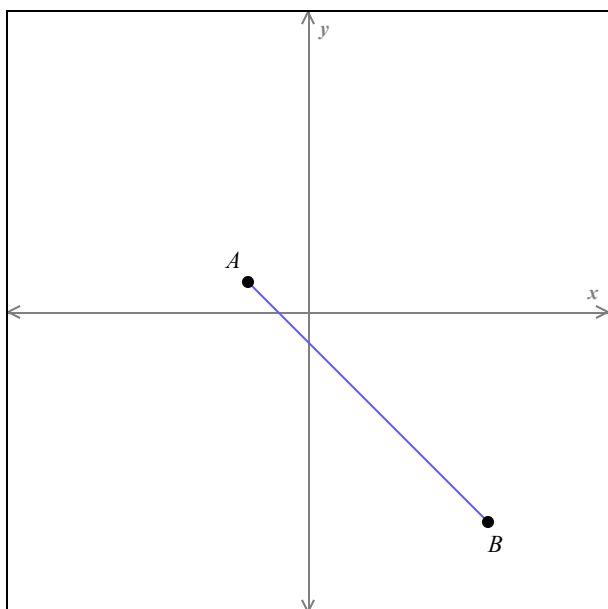
**Question 51 of 54**

Find the midpoint  $M$  of the line segment joining the points  $C = (5, 5)$  and  $D = (-1, -3)$ .



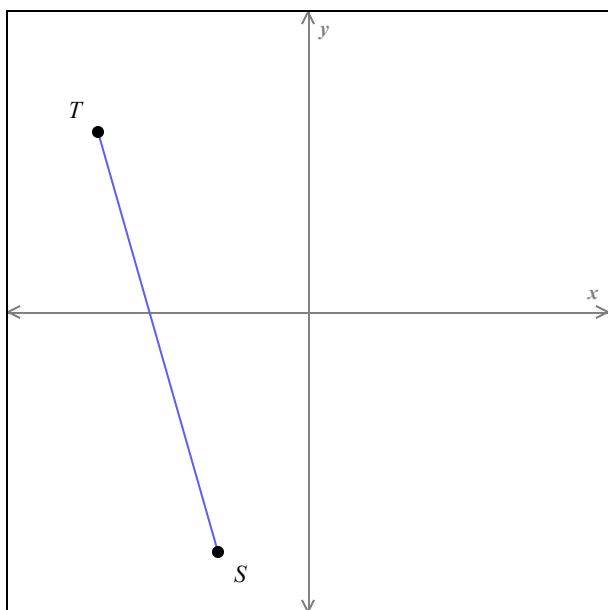
**Question 52 of 54**

Find the midpoint  $M$  of the line segment joining the points  $A = (-2, 1)$  and  $B = (6, -7)$ .



**Question 53 of 54**

Find the midpoint  $M$  of the line segment joining the points  $S = (-3, -8)$  and  $T = (-7, 6)$ .



**Question 54 of 54**

Find the midpoint  $M$  of the line segment joining the points  $A = (1, -6)$  and  $B = (-5, -2)$ .

