

9/20 Do Now



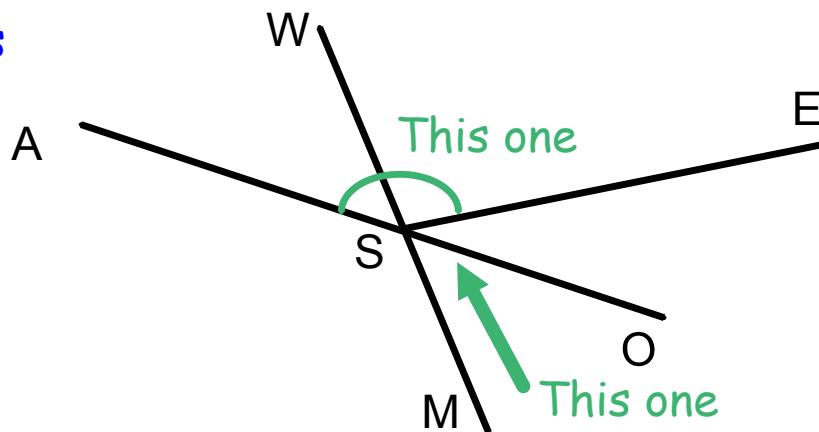
DO NOW

Name _____

Date _____ Per _____

(1) COPY THE DIAGRAM

(2) Name each angle in 2 ways



SLG: Given 2 coordinate points, find the midpoint and distance for the pair with or without a coordinate grid.

CCSS Standard:

9/20 Announcements



TEST TUESDAY!

SLG: Given 2 coordinate points, find the midpoint and distance for the pair with or without a coordinate grid.

CCSS Standard:

9/20 Assignment sheet



Class _____ Period _____

| DATE | CLASSWORK ASSIGNMENT | HOMEWORK ASSIGNMENT |
|------|--|--|
| 9/17 | Copying Segments & Bisecting Angles #1-12+practice due 9/17 | Copying Segments & Bisecting Angles 6 construction due 9/18 |
| 9/18 | Angle Addition Exploration & Notes #1-19 odd due 9/18 | Angle Addition wksht due 9/19 |
| 9/19 | Angles Complementary & Supplementary #1-2, 1-7 due 9/19 | Angles Complementary & Supplementary #1-8 due 9/20 |
| 9/20 | Find midpoint & distance on a coordinate plane due 9/21 | Find midpoint & distance on a coordinate plane due 9/24 |
| 9/21 | Finish Thursday's assignment due 9/21 | Finish Thursday's assignment due 9/24 |

SLG: Given 2 coordinate points, find the midpoint and distance for the pair with or without a coordinate grid.

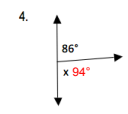
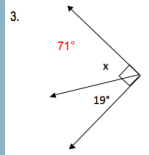
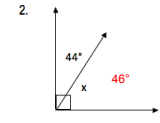
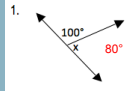
CCSS Standard:

9/20 HW Check and Questions



Homework

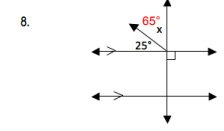
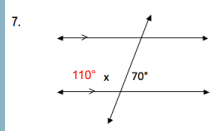
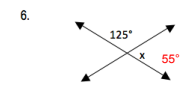
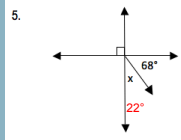
For each diagram:
 IDENTIFY whether the angles are complementary, supplementary, or neither
 WRITE an equation for pairs that are complementary or supplementary
 SOLVE the equation



or without a

Homework

For each diagram:
 IDENTIFY whether the angles are complementary, supplementary, or neither
 WRITE an equation for pairs that are complementary or supplementary
 SOLVE the equation

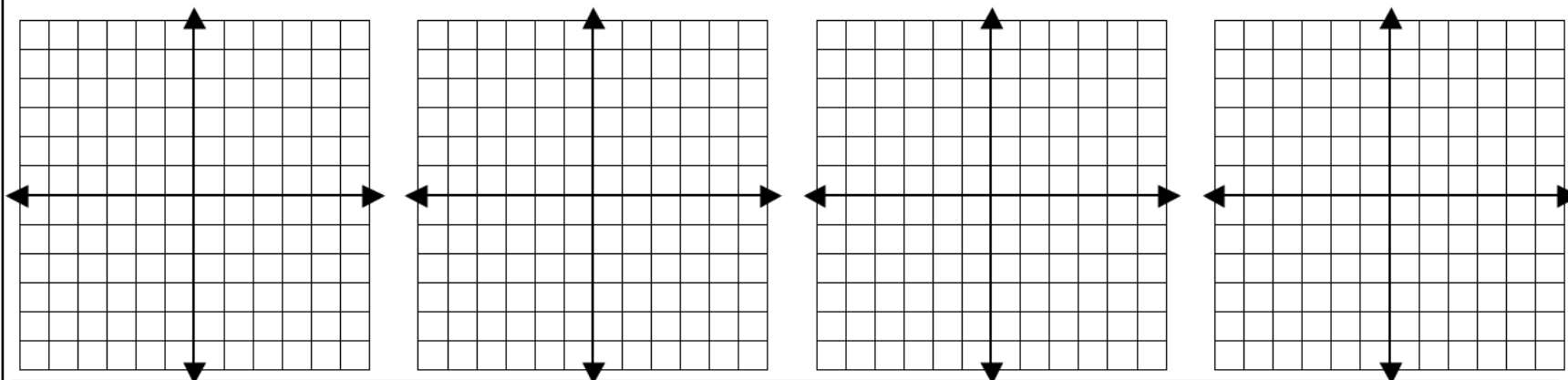


9/20 Midpoint & Distance

Midpoint: How can you find the midpoint of a horizontal segment on a coordinate plane? Vertical segment? What about a diagonal?

Example:  B is the midpoint of segment AC

- (1) Graph and label each line segment
- (2) Find (and circle) the midpoint of each segment,
- (3) Write the coordinates in the table



A (3,5) B (5,5)

C (-4, 1) D (1,1)

E (-5, -4) F (5, -4)

G (-3,-2) H (2, -2)

Midpoint(_____ , _____)

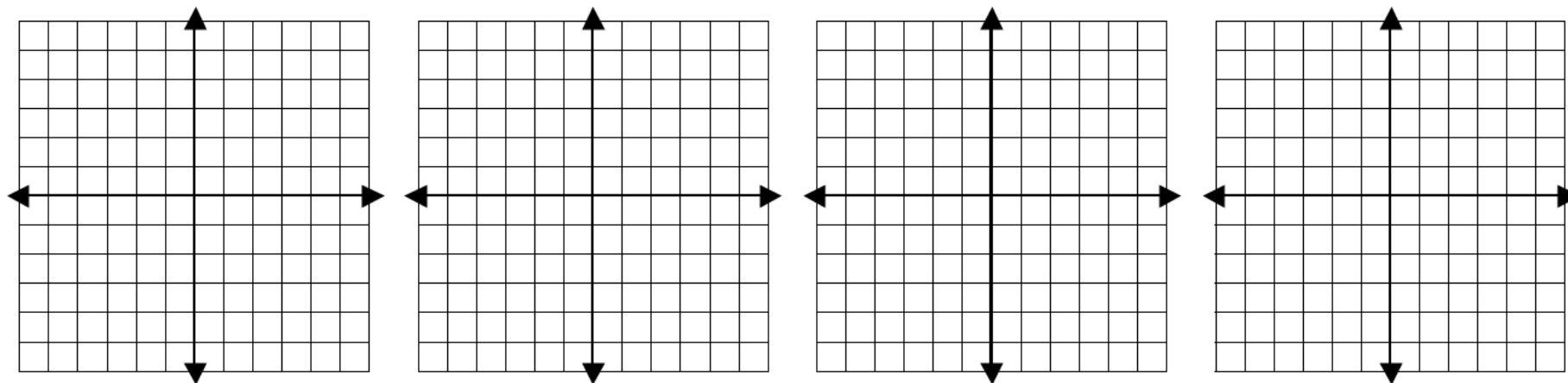
Midpoint(_____ , _____)

Midpoint(_____ , _____)

Midpoint(_____ , _____)

- (4) What number changes for the midpoint and how does it change?

9/20 Midpoint & Distance



J (3,4) K (3,-2)

L (-4, 3) M (-4, -1)

N (0,1) O (0, -5)

P (-1, 5) Q (-1, -4)

Midpoint(_____ , _____)

Midpoint(_____ , _____)

Midpoint(_____ , _____)

Midpoint(_____ , _____)

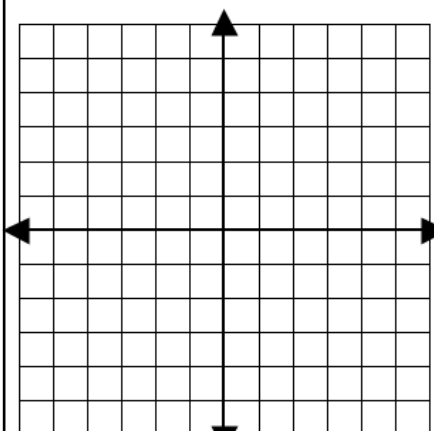
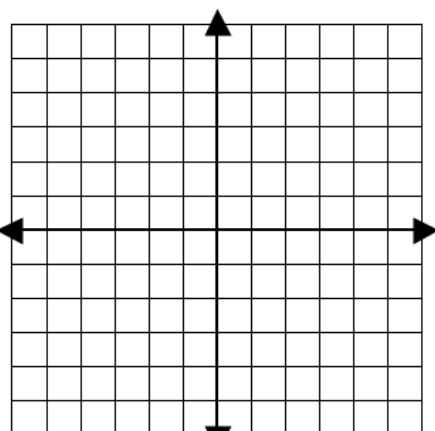
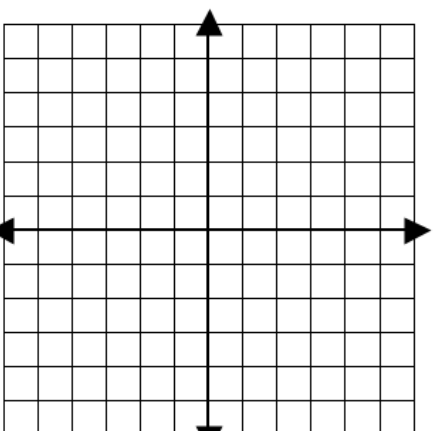
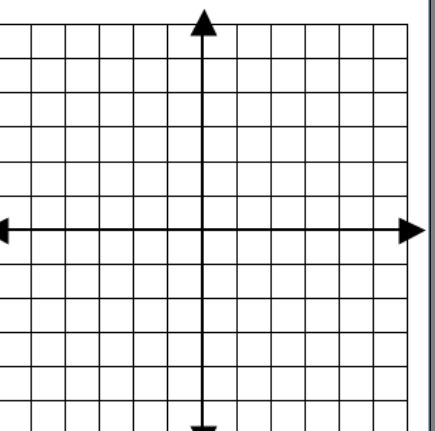
(5) What number changes for the midpoint and how does it change?

complementary angles.
CCSS Standard:

9/20 Midpoint & Distance

CAN WE find the midpoint of a slanted segment by finding the midpoints of horizontal and vertical segments?

(6) Find the midpoints when the x-values and y-values both change. Use any patterns you noticed in the previous problems to help you.

| | | | |
|---|--|---|---|
|  |  |  |  |
| A (3, 7) B (-5, -1) | C (-6, 5) D (0, 1) | E (-4, -6) F (2, -4) | G (-6, 6) H (0, 5) |
| Midpoint(____, ____) | Midpoint(____, ____) | Midpoint(____, ____) | Midpoint(____, ____) |

(7) Describe how could you find the midpoint of a segment without graphing it.

9/20 Midpoint & Distance

(8) Complete the table

| | | Midpoint | | |
|--------------|------------------|------------------|-------------------|--------------------------|
| Line segment | Endpoint 1 | Endpoint 2 | Formula OR Sketch | Co-ordinates of midpoint |
| GH | G (2, 2) | H (-2, -2) | | |
| JK | J (-1, -4) | K (2, 6) | | |
| LM | <u>L</u> (6, 11) | | | (7, 20) |
| NO | | <u>O</u> (8, 15) | | (-3, 11) |

SLG: Solve for a variable and an angle measure by using angle addition & supplementary & complementary angles.

CCSS Standard:

9/20 Midpoint & Distance

Distance: We can use the Pythagorean theorem to find the length of a side of a right triangle. Can we use that to find the distance between 2 points?

To use the Pythagorean Theorem, we must have a _____.

The formula for the Pythagorean Theorem is _____.

Example: Is the distance between the points in the diagram represented by the hypotenuse of a right triangle?

How can you find the length of a ?

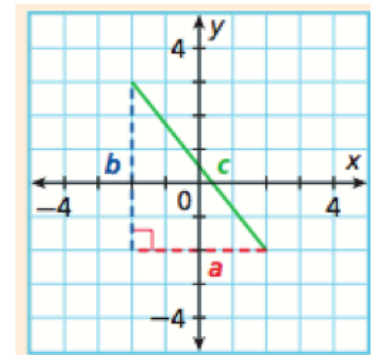
$a =$ _____

How can you find the length of b ?

$b =$ _____

How can you find the length of c ?

$c =$ _____

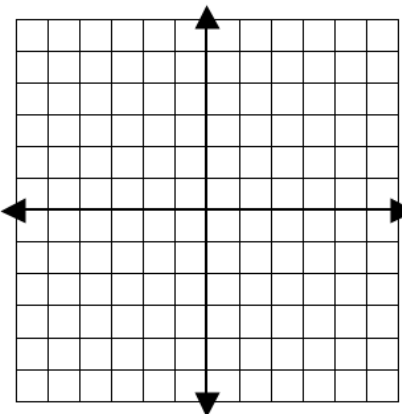


SLG: Solve for a variable and an angle measure by using angle addition & supplementary & complementary angles.

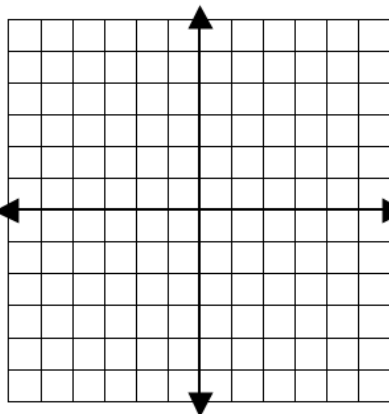
CCSS Standard:

9/20 Midpoint & Distance

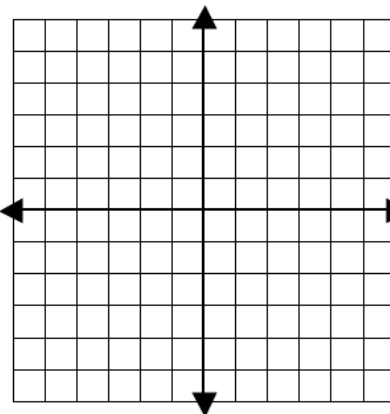
(2) Graph and label each line segment (3) Find length of each segment. Show each step like the example.



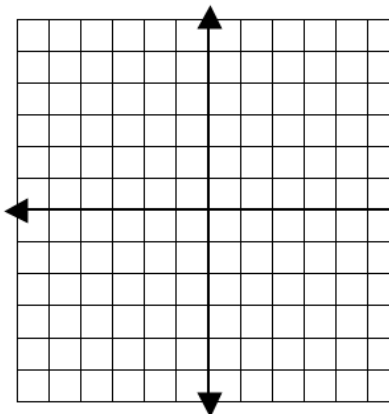
A (3,5) B (5,5)



C (-4, 1) D (-1,5)

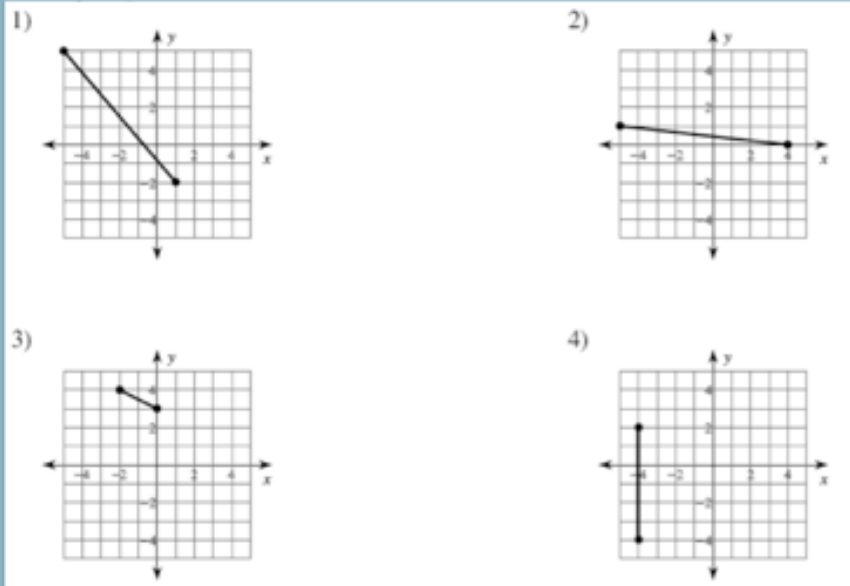


E (-5, 4) F (1, -4)



G (3,-2) H (-2, -5)

9/20 Homework



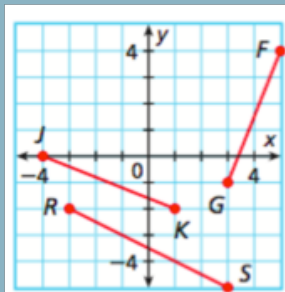
7) $(-2, 3), (-7, -7)$
 complementary angles.

8) $(2, -9), (-1, 4)$ elementary &

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

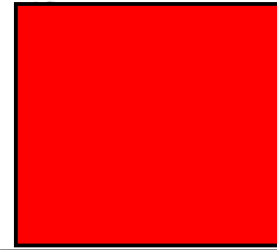
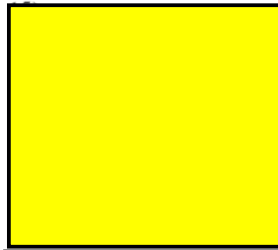
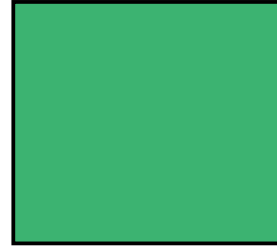
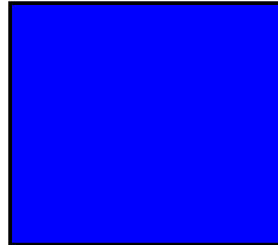
10) $(8, 5), (-1, 3)$

CHALLENGE: Find the length of each segment and determine if any of the segments are congruent.



9/21 Midpoint & Distance Team Challenge

Find the distance between each pair of points, or the midpoint



Critical thinking questions:

25) Name a point that is $\sqrt{2}$ away from $(-1, 5)$.

26) Name a point that is between 50 and 60 units away from $(7, -2)$ and state the distance between the two points.

9/20

Geometry PRIDE

Names & accomplishments

CCSS Standard:

9/21 Ticket Out the Door

Ticket out the door Name _____ Date _____ Per _____

☹ 1 2 3 4 5 ☺ because:

Over the weekend I will _____ to study for Tuesday's test.
I still need more practice with _____.

SLG: Given 2 coordinate points, find the midpoint and distance for the pair with or without a coordinate grid.
CCSS Standard:

9/17

Quiz

Face desks forward and clear desk except for

Communication of any sort = ZERO

RAISE YOUR HAND silently if you need something

CCSS Standard:

9/17

Test

Face desks forward and clear desk except for

Communication of any sort = ZERO

RAISE YOUR HAND silently if you need something

CCSS Standard:

