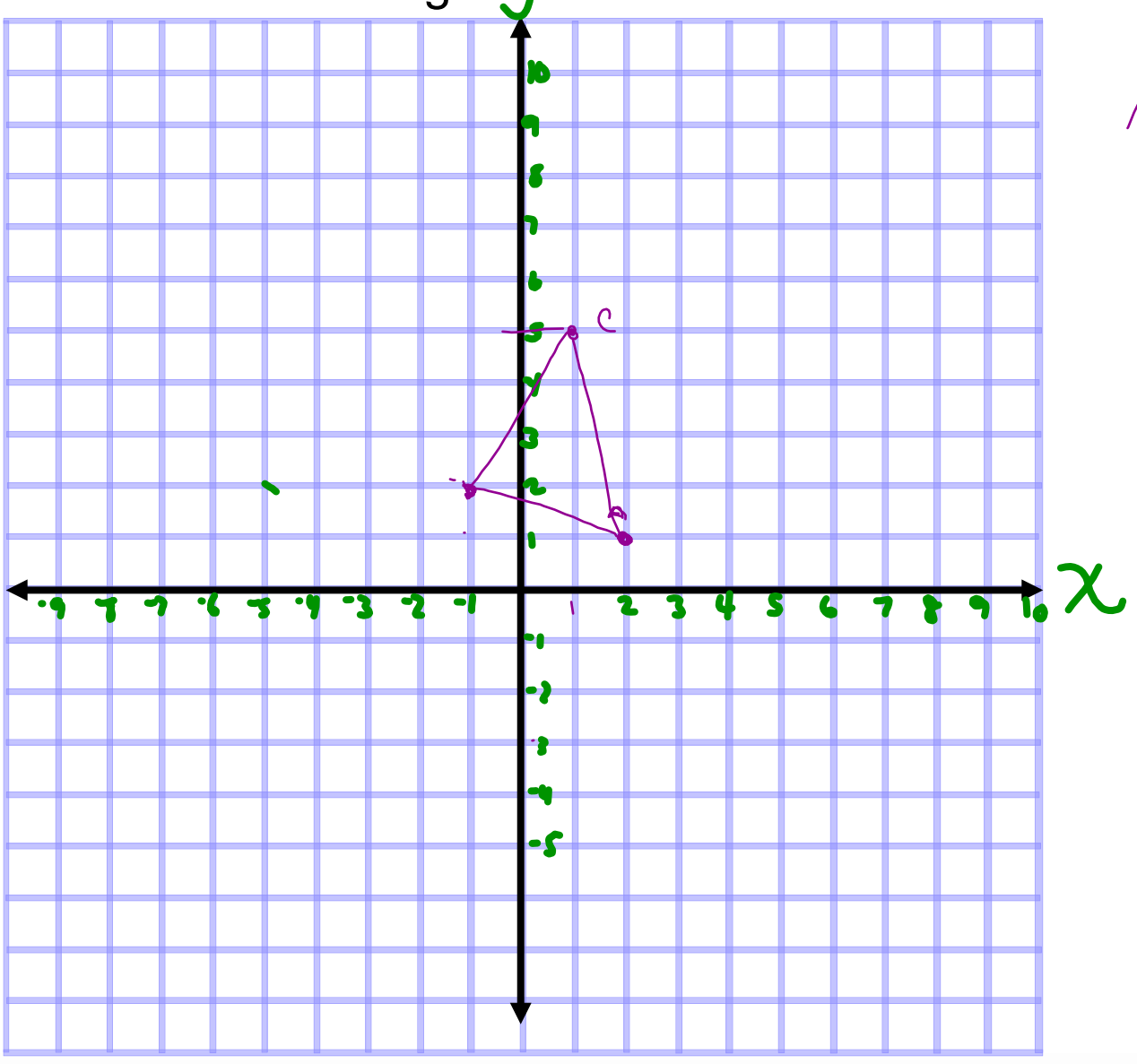
Warm Up Grade 7

Date:

1)

a)Plot these points on a coordinate grid: A(2,1), B(-1,2), C(1,5)

b) Now plot a point D so that when you connect the A to B to C to D and make a rectangle.

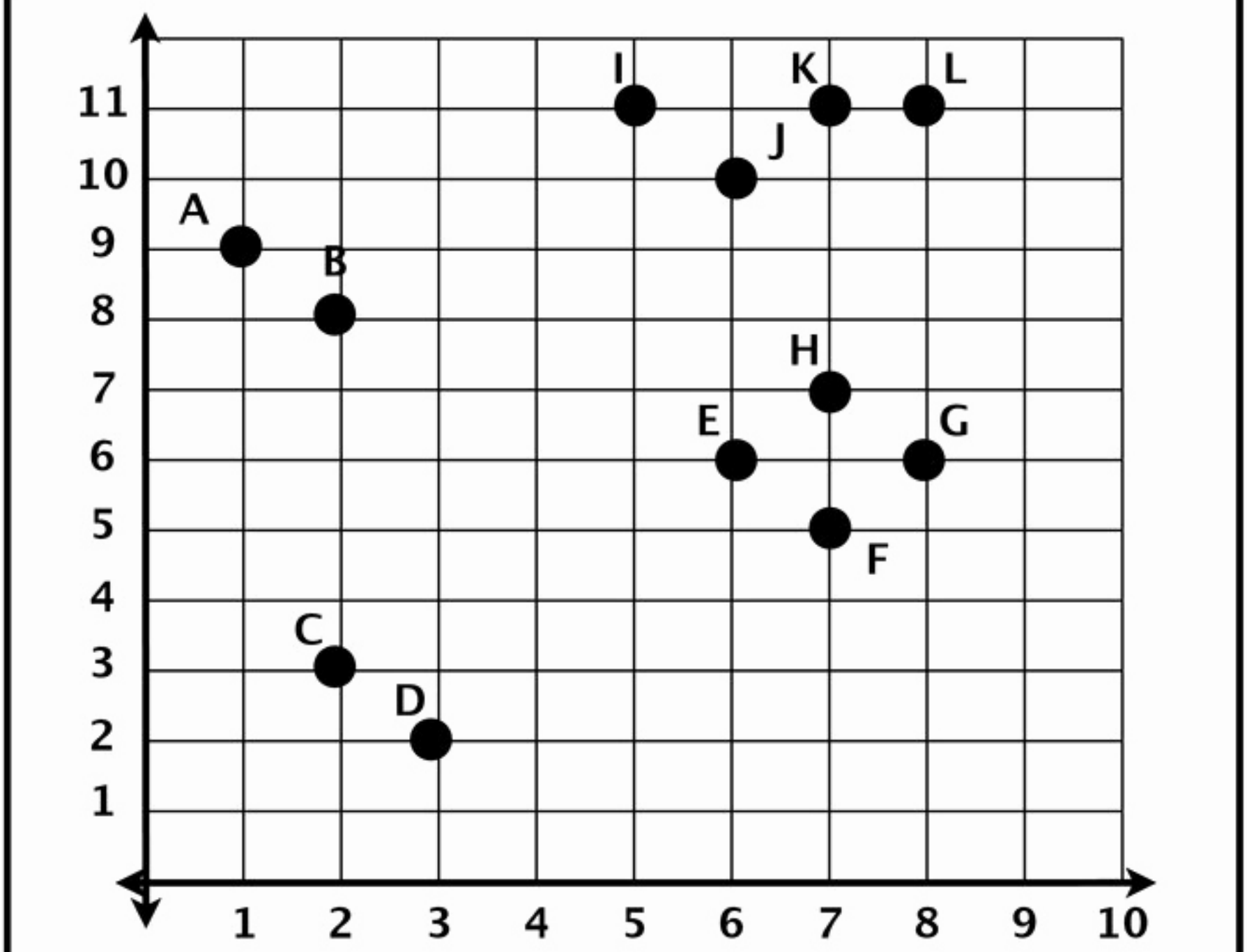


2)

Name: _____

Coordinates

Directions: Write the coordinates of the plotted points by starting with the X-axis (horizontal) and moving up the y-axis (vertical).



A. (1 , 9) E. (____ , ____) I. (____ , ____)

B. (8 , 2) F. (↔ 7 , ↕ 5) J. (____ , ____)

C. (3 , 2) G. (____ , ____) K. (____ , ____)

D. (2 x , 3 y) H. (____ , ____) L. (____ , ____)

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Parallel Lines



Parallel lines are lines on the straight flat surface that never meet. They are always the same distance apart.

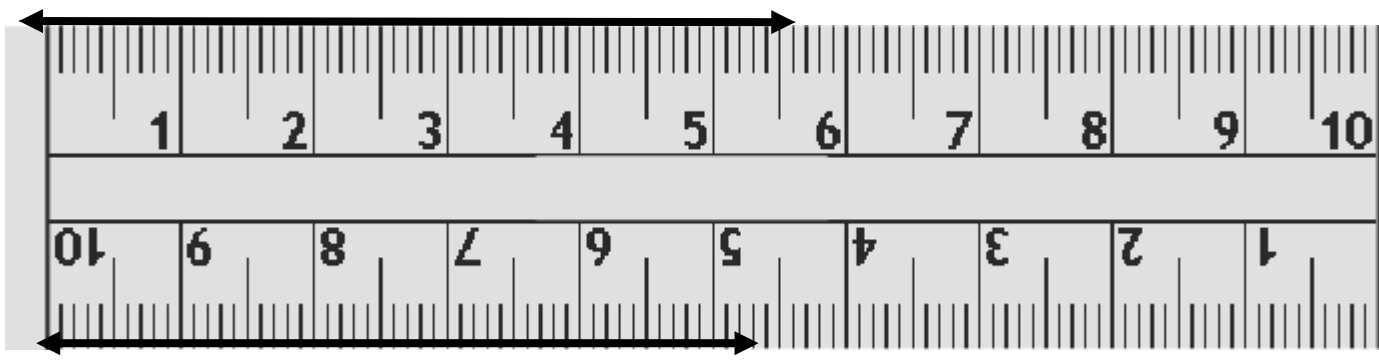
Here are some strategies to draw a line segment parallel to a given line segment.

Method 1

- Use a ruler

Place one edge of the ruler along the line segment.

Draw a line along the other edge of the ruler.



Method 2

- Use a ruler and protractor.

Choose a point on the line segment.

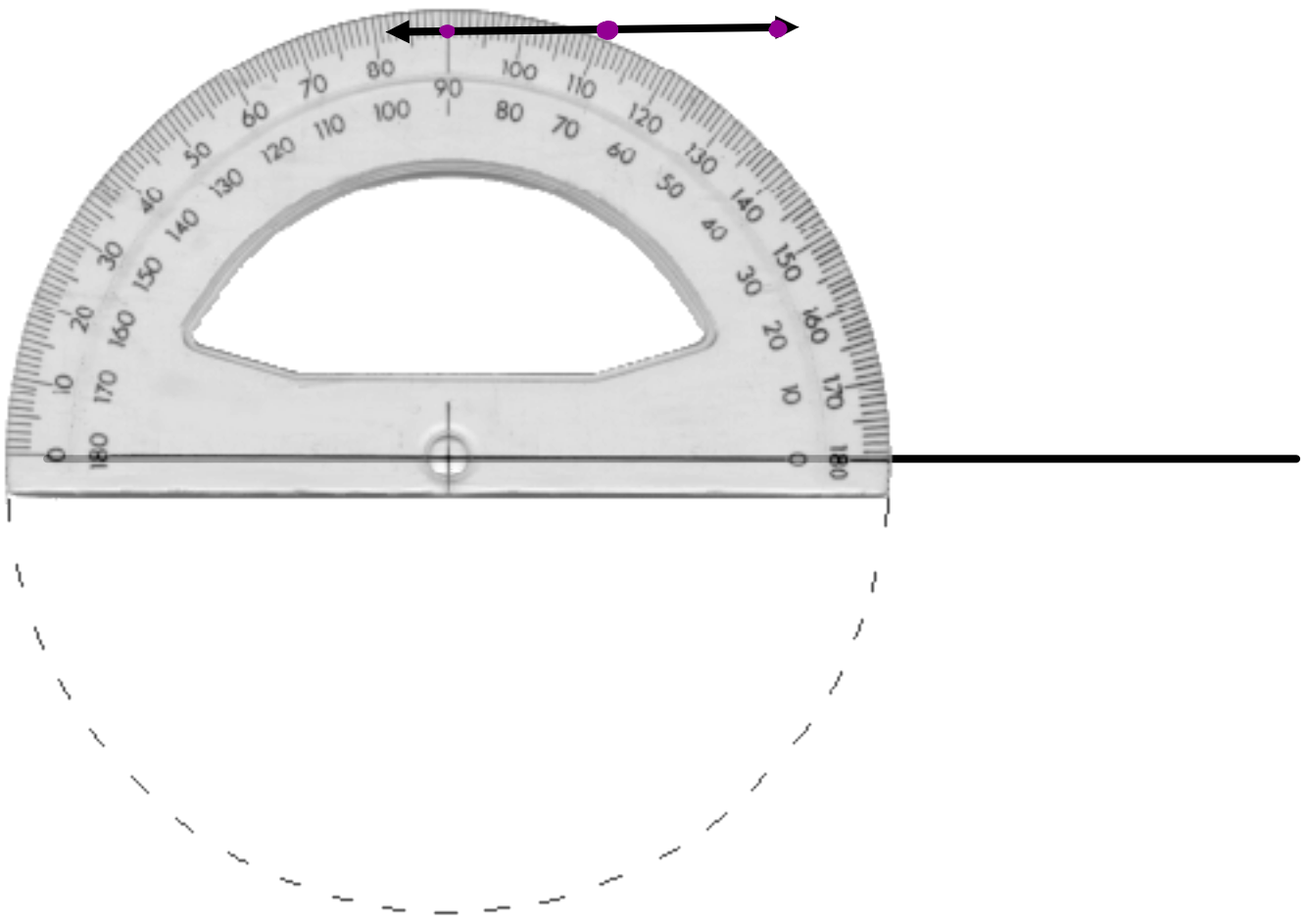
Place the center of the protractor on the point.

Align the base line of the protractor with the line segment.

Mark a point at 90 .

Repeat this step once more.

Join the 2 points to draw a line segment parallel to the line segment.



Method 3

Use a compass and a ruler to draw a line segment parallel to line segment AB that passes through the point C.

- Mark D on AB

- Draw a Circle with Center D, that has a radius CD

- Mark where the circle crosses the line E

- Place the compass on E, draw a circle without changing the size

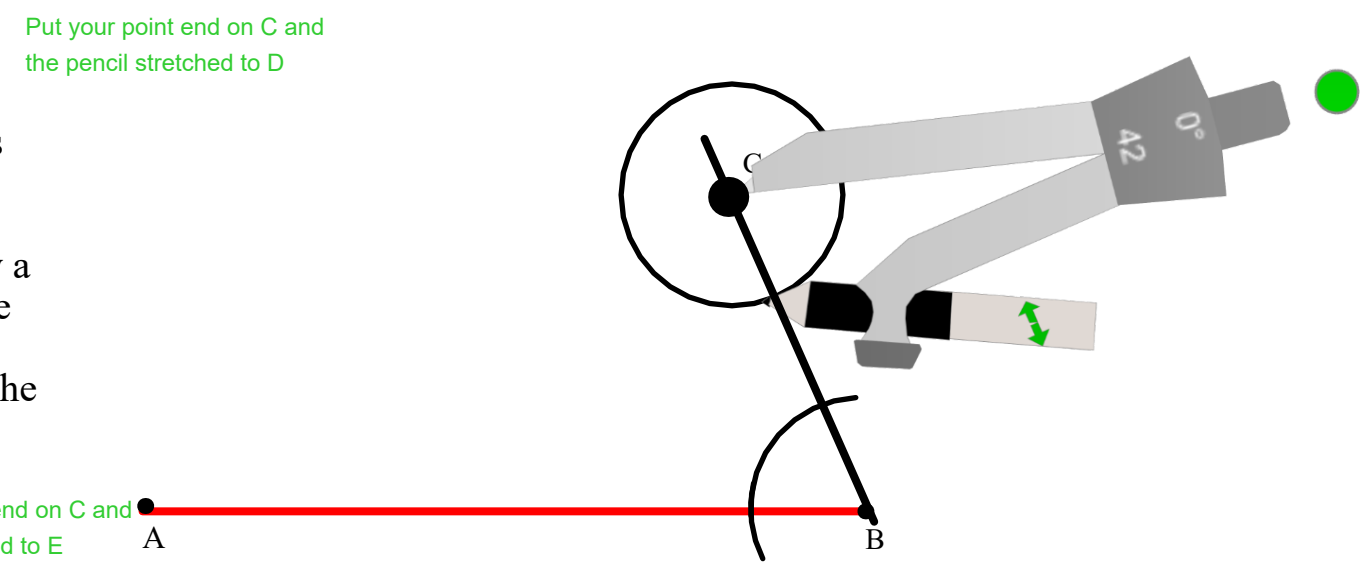
- Use the compass to measure the distance from E to C

- Place the compass on D and draw a circle using the above radius

-Label the Intersection of the 2 circles F

- Draw a line through CF.
This line is parallel to AB

constructing parallel lines through a given point - geometry



Use a compass and a ruler

- Mark D on AB

- Draw a Circle with Center D, that has a radius CD

- Mark where the circle crosses the line E

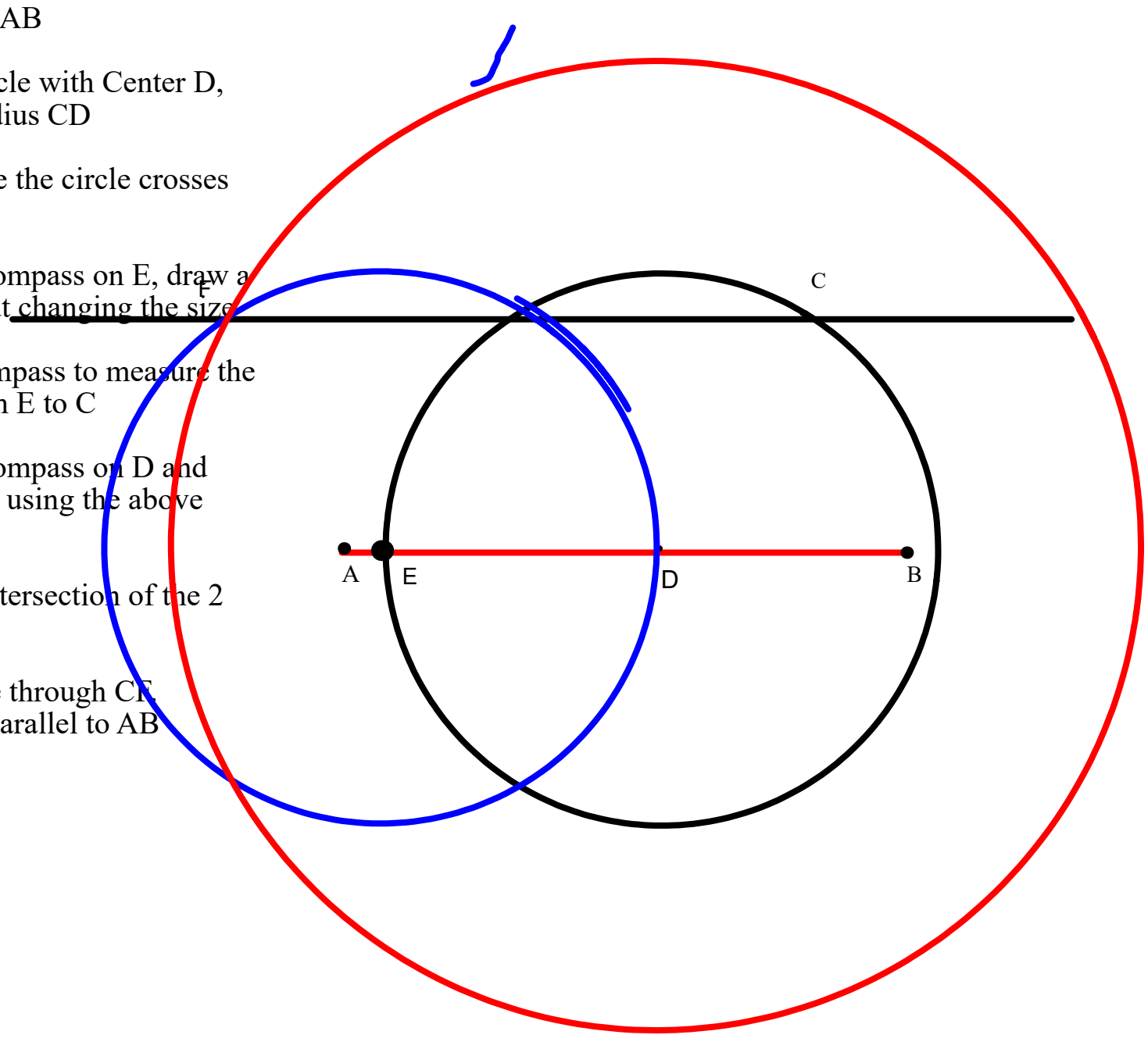
- Place the compass on E, draw a circle without changing the size

- Use the compass to measure the distance from E to C

- Place the compass on D and draw a circle using the above radius

-Label the Intersection of the 2 circles F

- Draw a line through CF
This line is parallel to AB





6 DIAGRAM

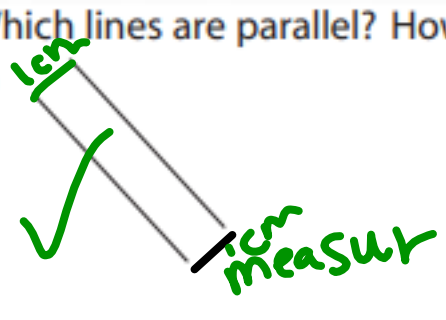
pg. 302 # 1-6

Students will need a compass and a ruler during class this week.

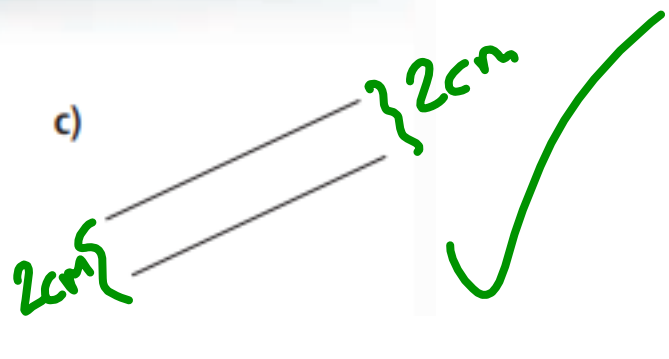
pg 302

Practice

1. Which lines are parallel? How do you know?

a) 

b) 

c) 

2. a) Draw line segment CD of length 5 cm.
Use a ruler to draw a line segment parallel to CD.

b) Choose 3 different points on CD.
Measure the shortest distance from each point to the line segment you drew.
What do you notice?

3. Draw line segment EF of length 8 cm.

a) Use a ruler and protractor to draw a line segment parallel to EF.

b) Use a ruler and compass to draw a line segment parallel to EF.

4. Suppose there are 2 line segments that look parallel.
How could you tell if they are parallel?

5. Make a list of where you see parallel line segments in your community or around the house.
Sketch diagrams to illustrate your list.

6. **Assessment Focus** Your teacher will give you a large copy of this diagram.
Find as many pairs of parallel line segments as you can.
How do you know they are parallel?

