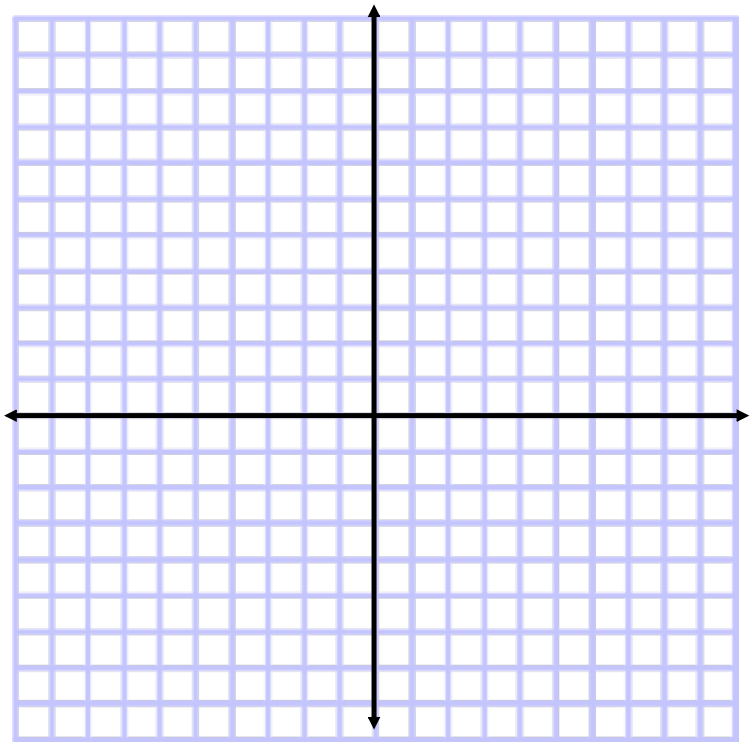
Warm Up Grade 7

Lesson 3 Elearn

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

a) Translate each point L2 D1 to get image points A', B', C'.

b) Write the coordinates of each point A', B', C'.



Solution

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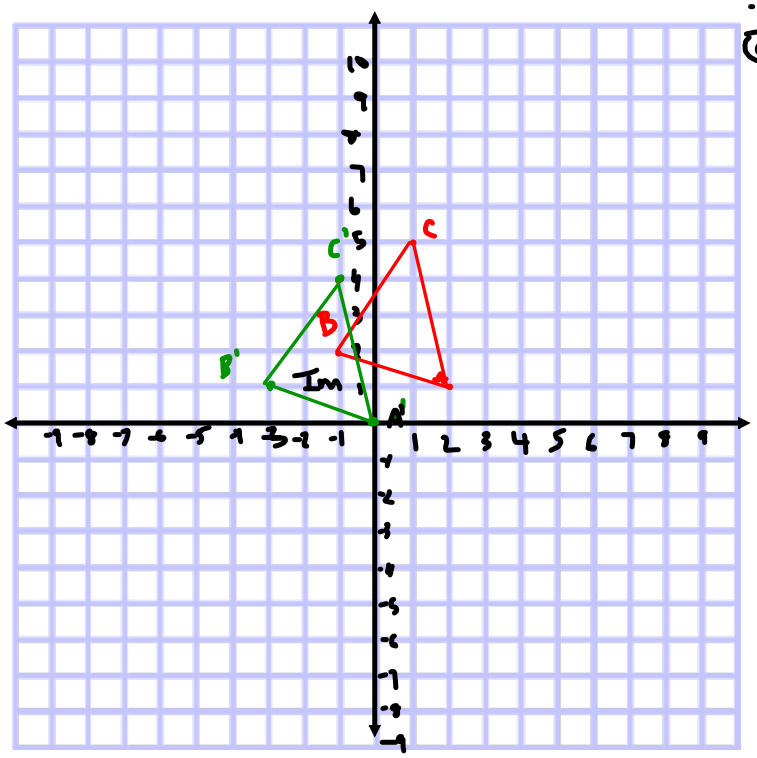


(2,1) → (0,0)

A' (0, 0)

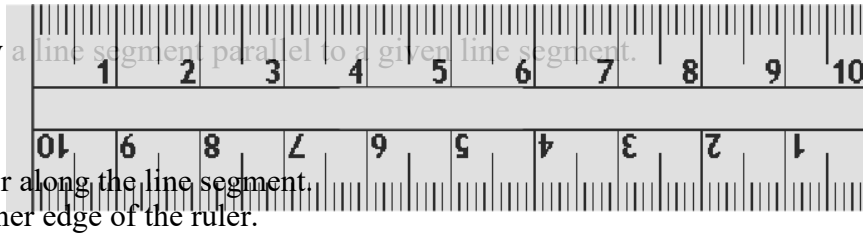
B' (-3, 1)

C' (-1, 4)

Parallel Lines

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

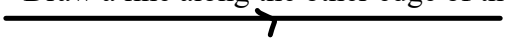
Here are some strategies to draw a line segment parallel to a given line segment.



Method 1

- Use a ruler

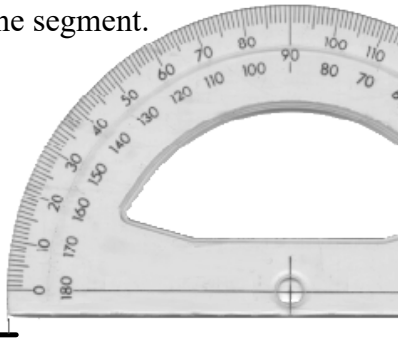
Place one edge of the ruler along the line segment.
Draw a line along the other edge of the ruler.

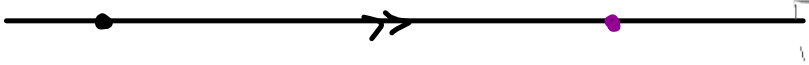


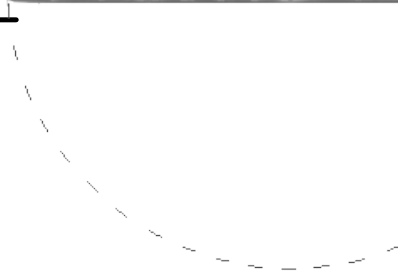
Method 2

- 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

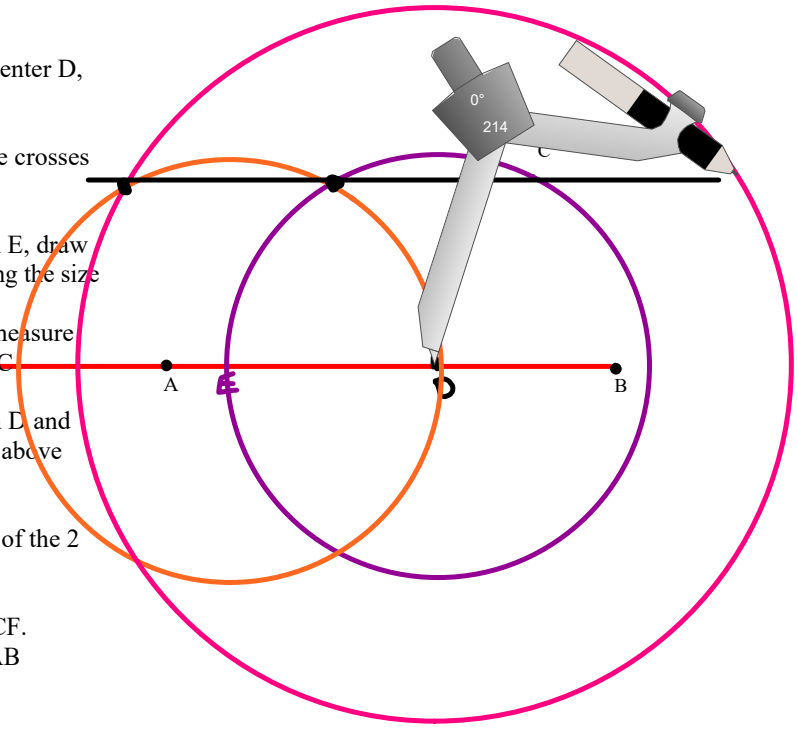
- Place the compass on E, draw a circle without changing the size

- 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



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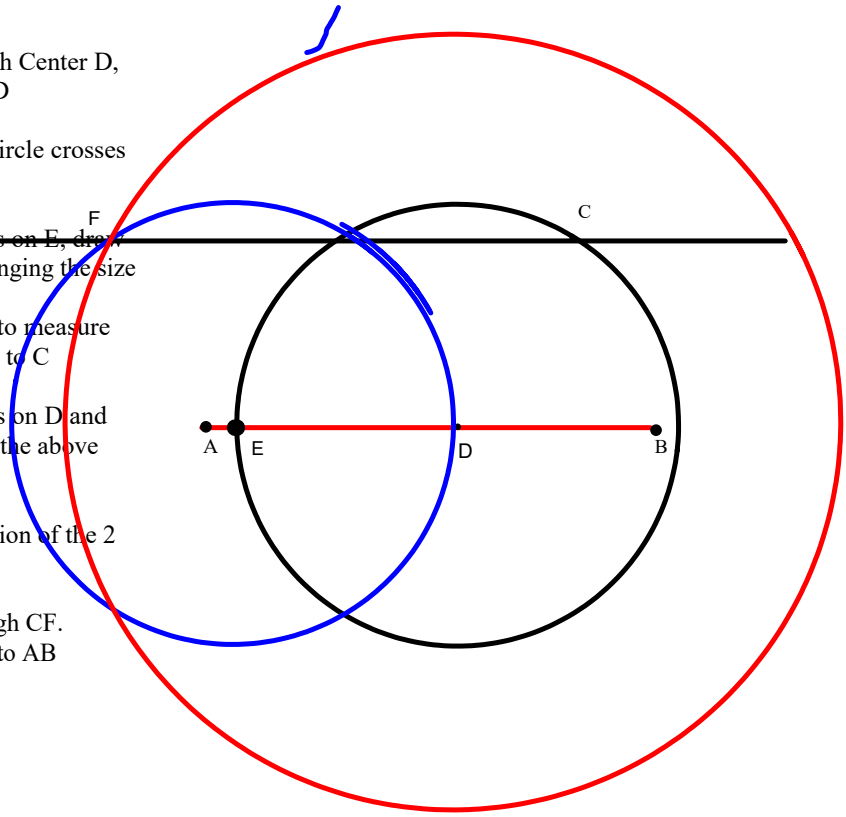

Watch more Youtube videos on how to draw parallel lines using rulers and compass

Attachments

Copy of NUMBER 6 DIAGRAM ON PG 302.pdf