



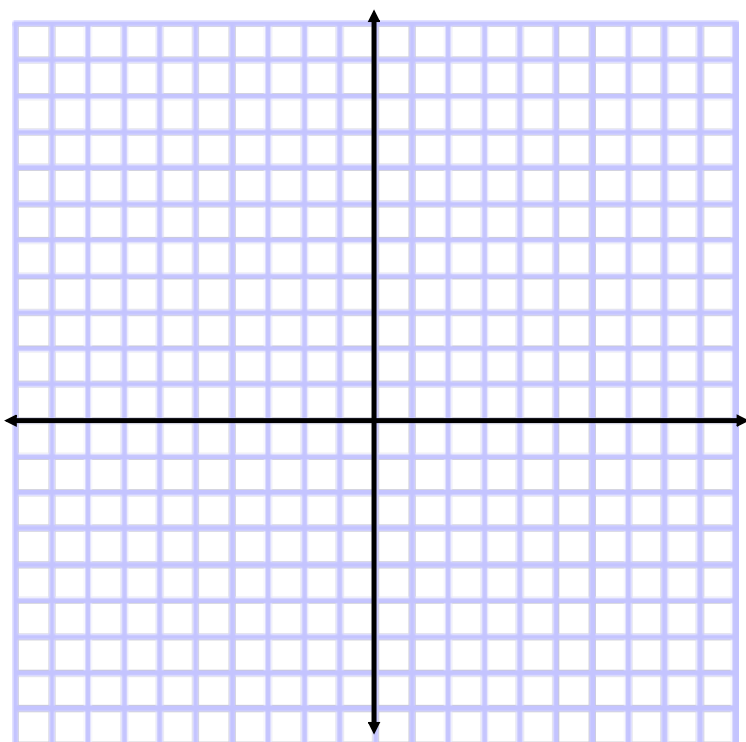
Warm Up Grade 7

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



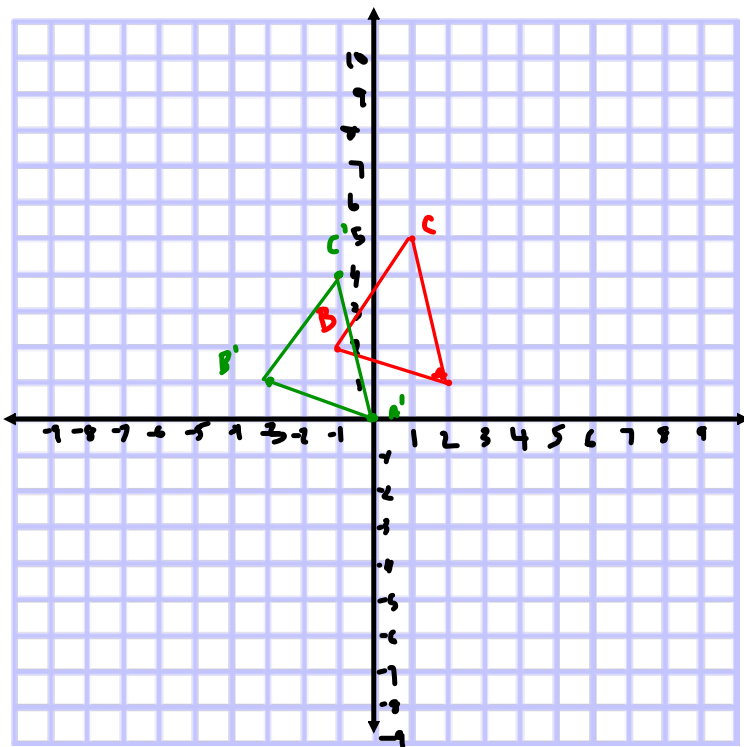
Warm Up Grade 7

Lesson 3 Elearn



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

- Translate each point 2 D1 to get image points A' , B' , C' .
- Write the coordinates of each point A' , B' , C' .



$$A' (0, 0)$$

$$B' (-3, 1)$$

$$C' (-1, 4)$$



Parallel Lines



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

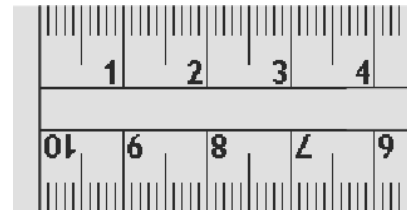
Here are some strategies to draw a line segment parallel to a given line segment.

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.

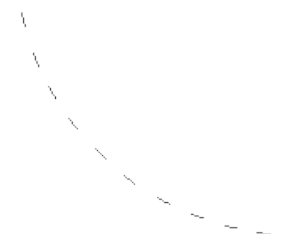
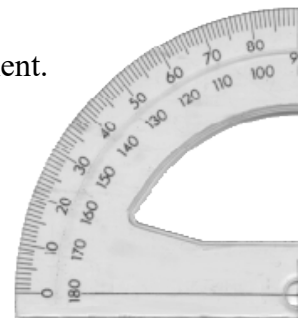
Place the center of the protractor on the point.

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

Mark a point at 90 .

Repeat this step once more.

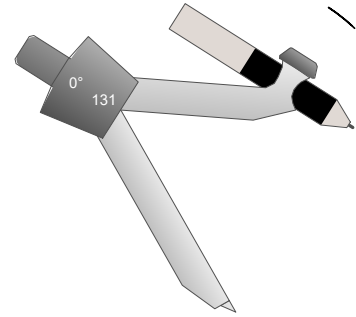
Join the 2 points to draw a line segment parallel to the line segment.



Method 3

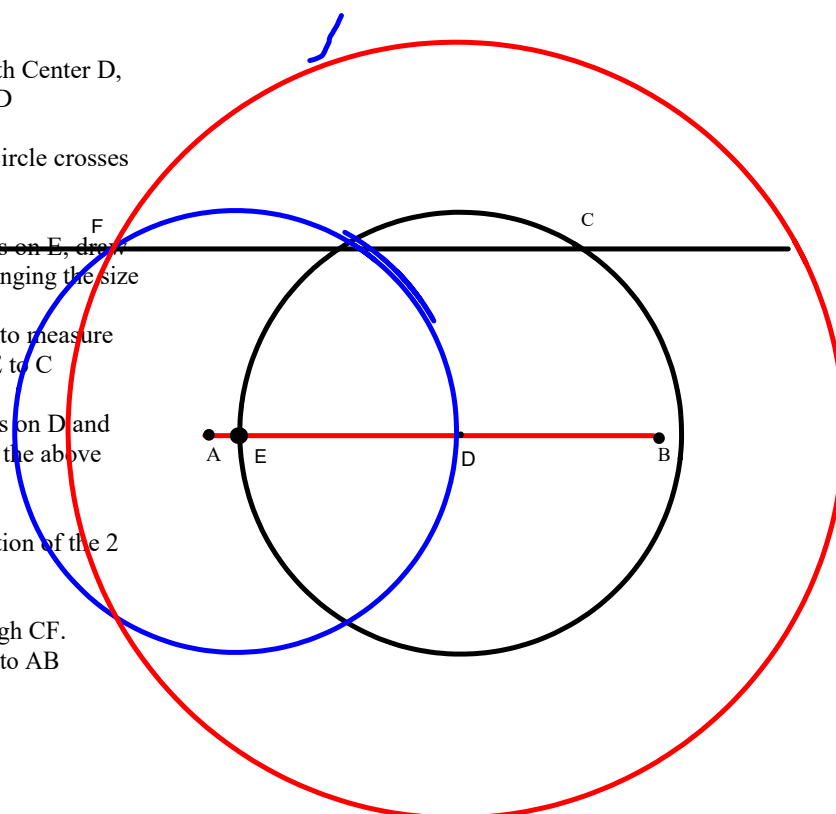
Use a compass and a ruler to draw a line segment parallel to line segment AB that passes through the point C.

- 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



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



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

Copy of NUMBER 6 DIAGRAM ON PG 302.pdf