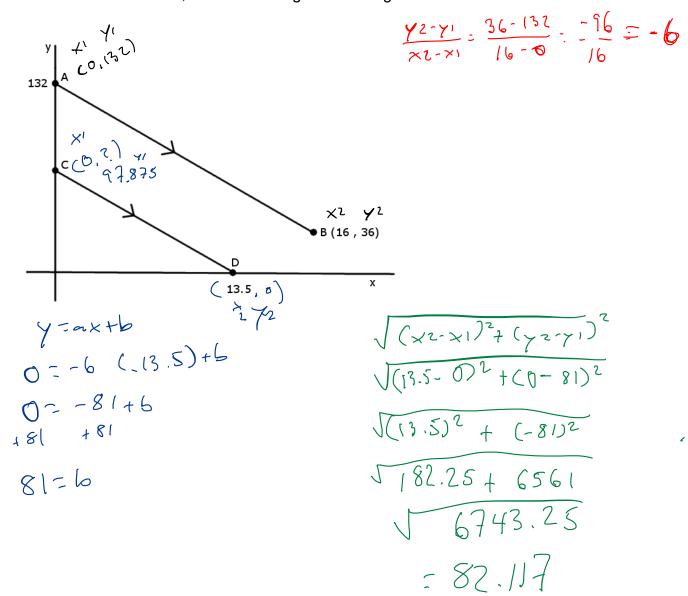
Name:	
Date;	

Final Review – 10 Analytic / Linear / Systems Toughies

- 1. Consider lines AB and CD.
 - Lines AB and CD are parallel
 - Points A and C are on the y-axis.
 - Point D is on the x-axis.

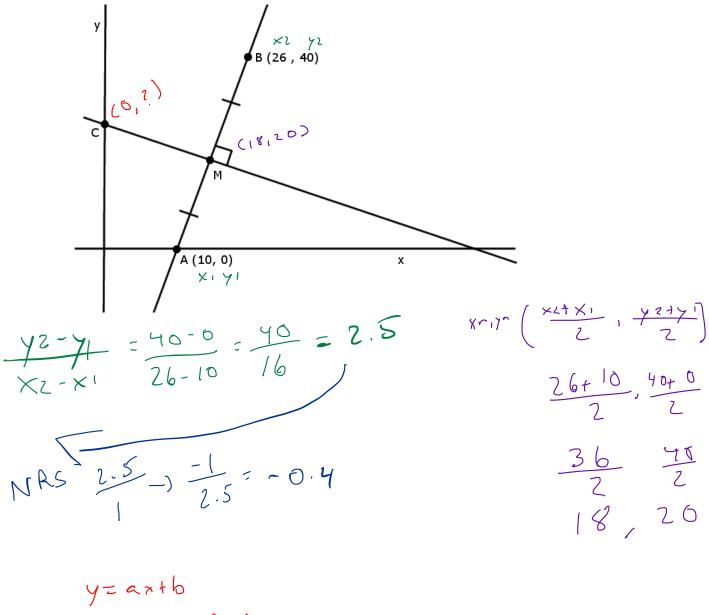
To the nearest tenth of unit, what is the length of line segment CD?



2. Consider lines AB and CM.

- AB meets CM at a right angle.
- Point M divides line AB into two line segments of equal length.
- Point C is on the y-axis.

What are the coordinates of point C?



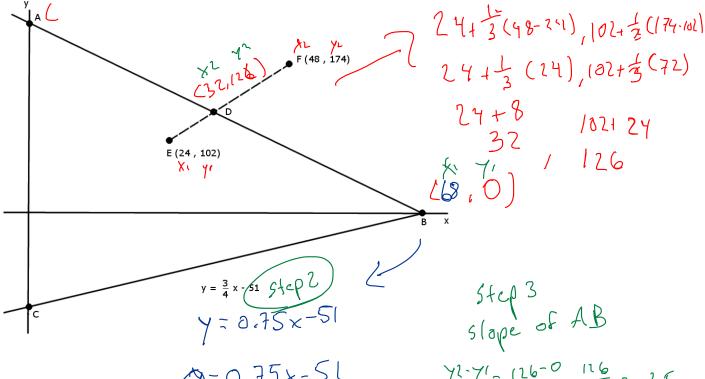
Answer: The coordinates of point C are $(\underline{\bigcirc}, \underline{27.2})$

3. Consider lines AB and CB.

- Points A and C are on the y-axis.
- Point B is on the x-axis.
- Point D divides line EF into a ratio of 1:2
- The rule for line BC is given by the equation: $y = \frac{3}{4}x 51$

What are the coordinates of point A?



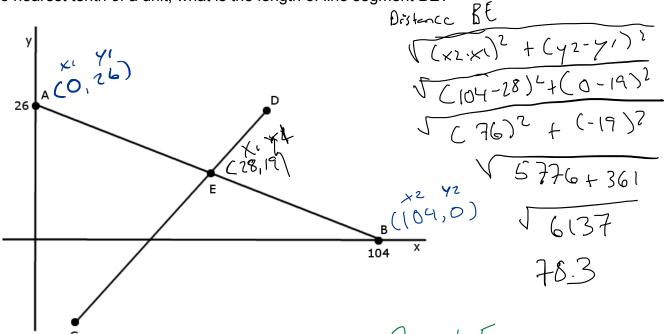


Step 3
$$5(ape \ of AB)$$
 $72.71 = (126-0) = 116$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 = -36$
 $32.68 =$

238=6

- 4. Consider lines AB and CD
 - Point A is on the y-axis
 - Point B is on the x-axis
 - The rule for line CD is represented by the equation: 6x 3y 111 = 0.
 - Point E is the intersection of lines AB and CD.

To the nearest tenth of a unit, what is the length of line segment BE?



$$\frac{y^{2-7'}}{x_{1} \cdot x_{1}} = \frac{0^{-26}}{104-6} = \frac{-26}{104} = -0.25$$

$$y = -0.25 \times +26$$

$$6 \times -37 - 111 = 0$$
 $-6 \times 4111 - 6 \times 4111$
 $-37 = -6 \times 4111$
 $-3 = -3$
 $-3 = -3$

Answer: To the nearest tenth, the length of line segment BE is ______ units.