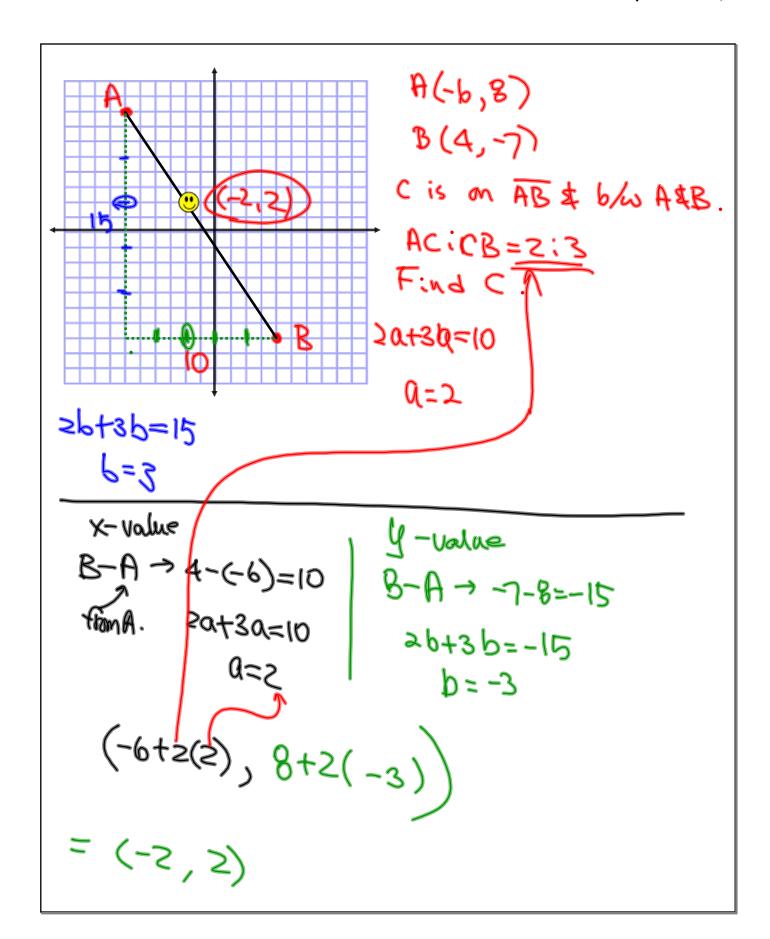
bisector > circum conten > Altitude -> orthocenter a point on AB w/ratio. mig pt. 4:12 Point-slope } forms of a linear eq.

Standard



A(6,3) B(x,7)

If AB = 5 Find x.

$$0$$
 $d = \sqrt{(X_2 - X_1)^2 + (y_2 - y_1)^2}$
 $5 = \sqrt{(6 - X)^2 + (5 - 7)^2}$
 $25 = (6 - X)^2 + 16$
 $6 = (6 - X)^2$
 $6 + 3 = -X$
 $6 + 3 = -3$
 $6 - 3 = -9$
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