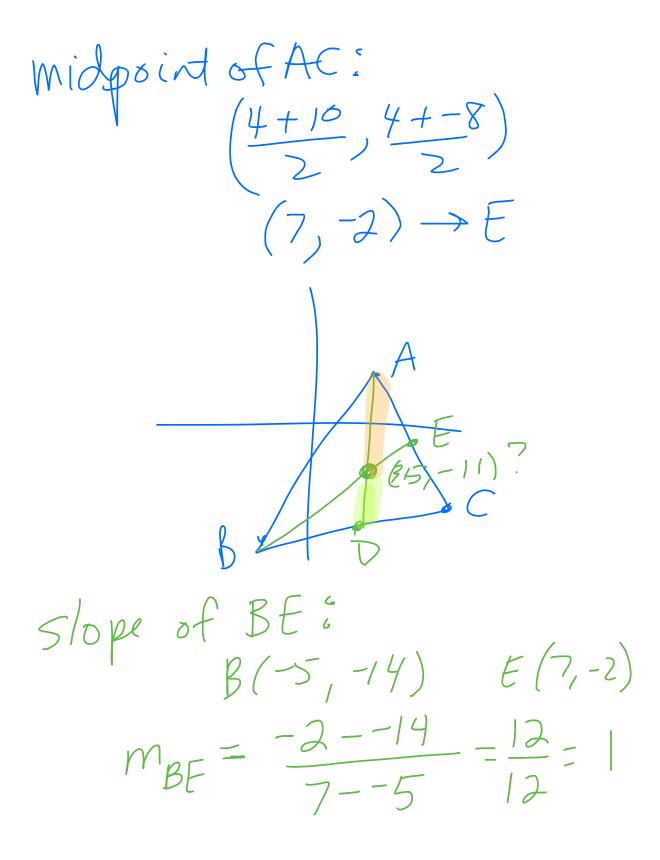
Please have your homework on your desk. Study your flash cards with someone. Also check your homework answers with someone. Thank you!

 $\left| \right|$

A(4,4) B(-5,-14) C(10,-8) Midpoint of BC = $\begin{pmatrix} -5+10 & -14+-8 \\ 2 & 2 \end{pmatrix}$ $(2.5, -11) \rightarrow D$



Slope of AD: A(4,4) D(2.5,-11) $M_{AI} = \frac{-11-4}{2.5-4} = \frac{-15}{-1.5} = 10$ Egn of line BE -> mBE=1 R(-5,-14) y + 14 = 1(x + 5)y + 14 = x + 5-14 - 14y=x-9 line AD $\rightarrow A(4,4)$ M=10 y - 4 = 10(x - 4)y - 4 = 10x - 40

+4 +4 $y = 10\chi - 36$ 9 y=x-9 y=10x-36 1X-9=10X-36 -10X -10X $-9\chi - 9 = -36$ 19 +9 $-9\chi = -27$ -q -9 $\chi = 3$ Plug back in thindy !

y=3-9 y = -6(3, -6) (\mathbb{I}) Use distance Formula $d = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2}$ with A(4,4) z centroid (3,-6) $d = (4-3)^2 + (4--6)^2$ $d = \sqrt{|^2 + |_0^2}$ d=1101 dz 10.05

