

CP Algebra 2:

Name: _____

HW: Extensions of Equations of Lines**SHOW YOUR SETUP AND ANY NON-ARITHMETIC ON ADDITIONAL SHEET(S) FOR CREDIT!**

- 1.) Find the equation of the line containing the point $\left(\frac{1}{4}, -\frac{8}{5}\right)$ parallel to $5x - 8y = 10$.
- 2.) Find the equation of the line containing the points $\left(\frac{8}{3}, \frac{9}{4}\right)$ and $\left(-\frac{11}{5}, 3\right)$
- 3.) Find the equation of the line containing the point $\left(\frac{17}{3}, -\frac{15}{2}\right)$ perpendicular to $8x + 7y = 200$.

Problems 4-6 deal with the triangle having vertices: $A(-1, 2); B(3, 5); C(7, -6)$

- 4.) Find the equations of the three altitudes of this triangle in SLOPE-INTERCEPT FORM.
- 5.) Find the equations of the three perpendicular bisectors of this triangle in SLOPE-INTERCEPT FORM
- 6.) Find the equations of the three medians of this triangle in SLOPE-INTERCEPT FORM

Problems 7-9 deal with the triangle having vertices: $A(7, 4); B(-1, -5); C(3, 1)$

- 7.) Find the equations of the three altitudes of this triangle in SLOPE-INTERCEPT FORM.
- 8.) Find the equations of the three perpendicular bisectors of this triangle in SLOPE-INTERCEPT FORM
- 9.) Find the equations of the three medians of this triangle in SLOPE-INTERCEPT FORM