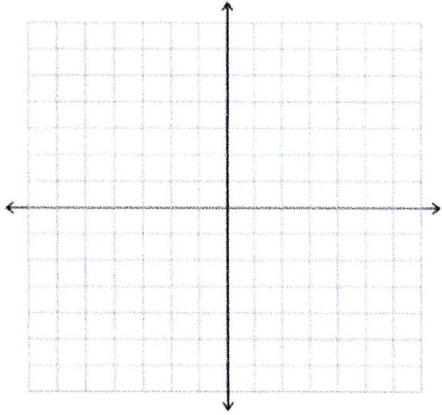


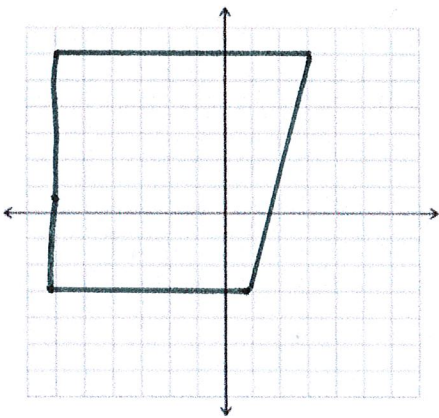
Name _____ date _____ due _____
 Geometry take home assignment #5 (THA5) All work must be shown and must be valid.
 Symbols must be accurate.

1. plot A (-2, 6) B (-2, -4) C (5, 6)

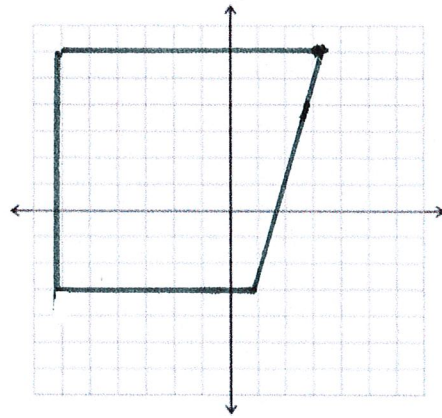


2. using your shape from #2, find the
 perimeter _____
 area _____

3. find the area



4. find the perimeter



5. Two lines have the equations:
 $y = 3x - 9$ and $y = -\frac{1}{3}x - 9$. Are these lines parallel,
 perpendicular, or neither? How do you know?

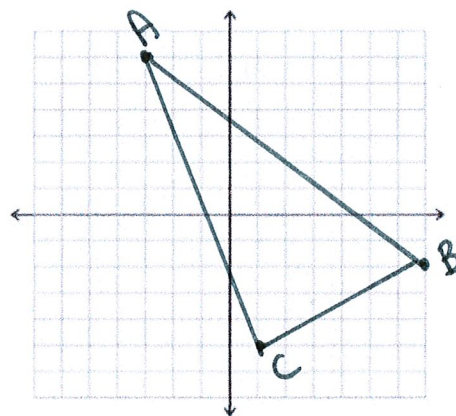
6. Two lines have the equations:
 $y = -2x + 4$ and $y = -\frac{1}{2}x + 8$.
 Are these lines parallel, perpendicular, or
 neither? How do you know?

7. A line has the equation $y = -\frac{2}{3}x + 5$. Write the equation of the line parallel to this line that passes through $(-24, 30)$.

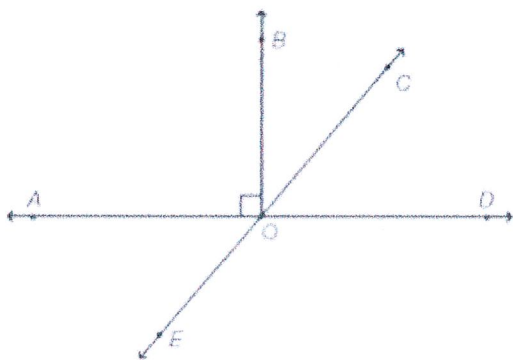
8. A line has the equation $y = -\frac{2}{3}x + 5$. Write the equation of the line perpendicular to this line that passes through $(-24, 30)$.

9. Line A contains $(5, 8)$ and $(3, 6)$.
Line B contains $(-4, 2)$ and $(4, 10)$.
Are lines A and B parallel, perpendicular, or neither?
You must find the slope of each line to prove your answer. Use slope slide or $\frac{y_2 - y_1}{x_2 - x_1}$

10. Find the midpoint of \overline{AB}



11. name an angle supplementary to $\angle BOC$



12. $m\angle 7 = (5x - 12)^\circ$ $m\angle 2 = (2x + 18)^\circ$

$x = \underline{\hspace{2cm}}$ $m\angle 7 = \underline{\hspace{2cm}}$

$\angle 7$ and $\angle 2$ are $\underline{\hspace{2cm}}$ angles

