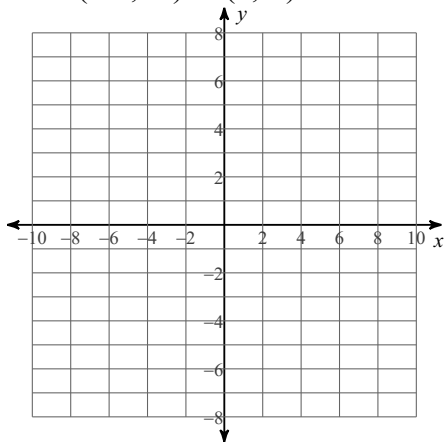


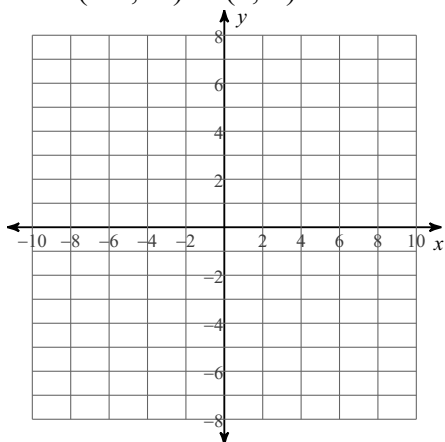
Day 5 Homework

**Show your work GRAPHICALLY.**

- 1) Determine the point that is  $\frac{2}{3}$  of the way from  $(-10, -1)$  to  $(8, -7)$ .



- 2) Determine the point that is  $\frac{1}{3}$  of the way from  $(-10, -1)$  to  $(8, -7)$ .



**Show your work ALGEBRAICALLY.**

- 3) Determine the point that is  $\frac{3}{4}$  the distance from  $(-6, -16)$  to  $(34, 2)$ .

- 4) Determine the point that is  $\frac{1}{3}$  the distance from  $(6, 24)$  to  $(-9, -18)$ .

**Find the other endpoint of the line segment with the given endpoint and given midpoint. Show your work ALGEBRAICALLY.**

5) Endpoint:  $\left(\frac{5}{8}, \frac{1}{3}\right)$ , midpoint:  $\left(\frac{2}{3}, \frac{1}{2}\right)$

(answer must be exact improper fractions & work must be shown for points)

**Next time in class you will need to use the different properties of quadrilaterals in order to identify them. So the rest of this assignment is aimed at reminding you of these properties. YOU CAN DO IT!!! (Use the internet if you cannot remember this from previous math classes).**

- 6) What makes a shape a quadrilateral?
- 7) a) What are the differences between a square and a rectangle?  
b) What are the similarities between a square and a rectangle?
- 8) a) What are the differences between a parallelogram and a rectangle?  
b) What are the similarities between a parallelogram and a rectangle?
- 9) a) What are the differences between a parallelogram and a trapezoid?  
b) What are the similarities between a parallelogram and a trapezoid?
- 10) What special property does an isosceles trapezoid have that a trapezoid (non-isosceles) does not?
- 11) What property(s) do kites have that the other special quadrilaterals do not?

12) a) What are the differences between a parallelogram and a rhombus?

b) What are the similarities between a parallelogram and a rhombus?

13) a) What are the differences between a square and a rhombus?

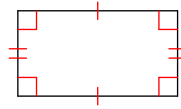
b) What are the similarities between a square and a rhombus?

**Diagram markings reminders (these are not questions, just a reminder :)**

14)



15)

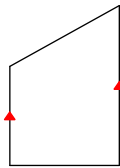


**State the most specific name for each figure, then say why.**

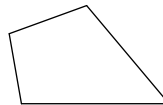
Your choices are    **Quadrilateral,**  
                              **Square,**  
                              **Rectangle,**  
                              **Trapezoid,**  
                              **Isosceles Trapezoid,**  
                              **Kite,**  
                              **Parallelogram,**  
                              **or Rhombus.**

**YOU MUST JUSTIFY YOUR ANSWER WITH WORDS** by listing the properties that the given shape has (as shown by markings) that helped you make your decision (example: parallel sides, congruent sides, etc).

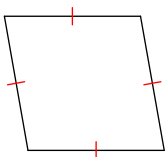
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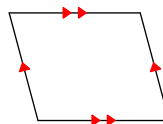
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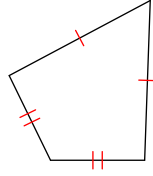
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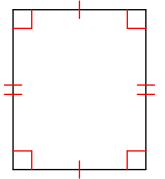
20)



21)



22)



23)

