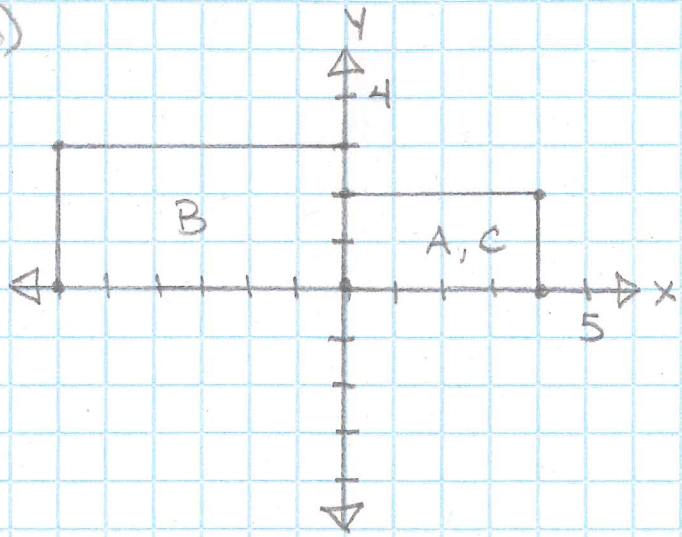
SECTION 2.6
#8, 9, 10, 11, 14, 16

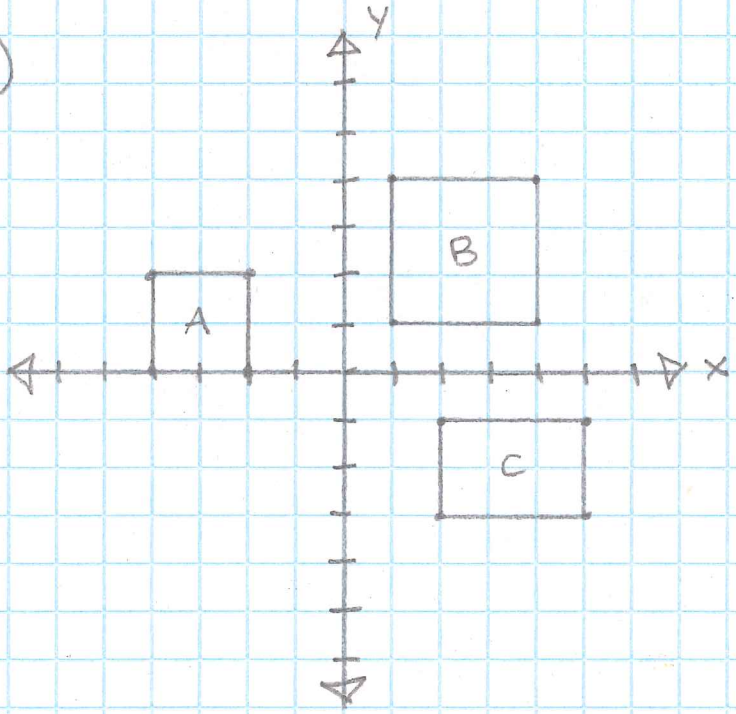
BEN WILSON
PER 1
10/23/19

8)



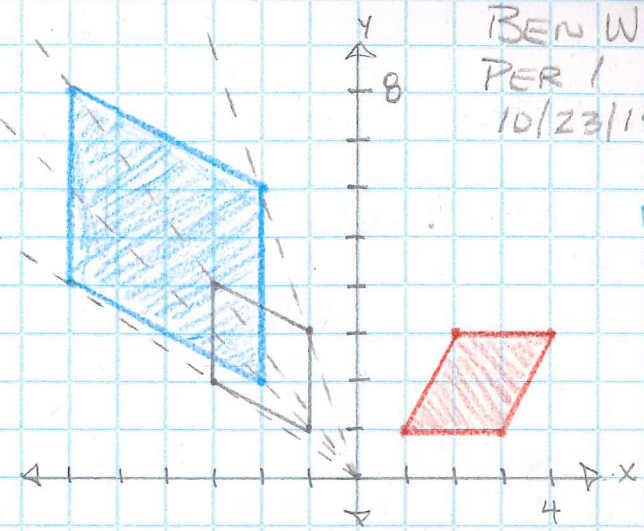
BECAUSE A & C ARE CONGRUENT, THEY ARE AUTOMATICALLY SIMILAR. B IS SIMILAR TO A & C AS WELL. IF YOU DILATE A WITH A SCALE FACTOR OF 1.5, IT WILL BE CONGRUENT TO B.

9)



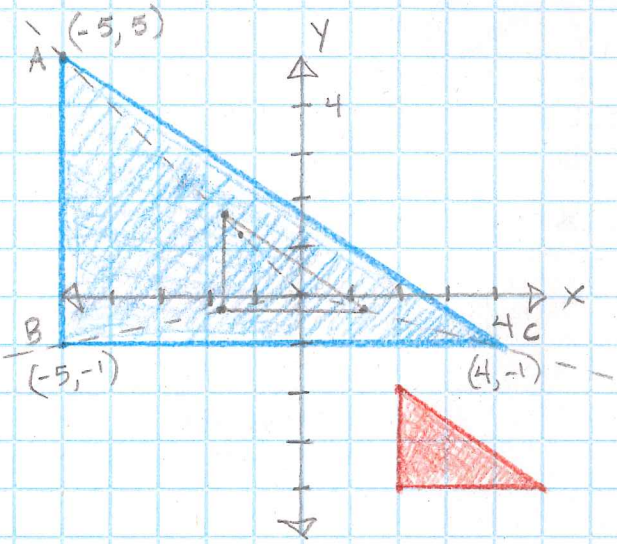
BECAUSE A & B ARE BOTH SQUARES, THEY ARE SIMILAR TO EACH OTHER. C ISN'T SIMILAR TO EITHER OF THEM.

10)



- DILATE THE BLUE FIGURE BY A SCALE FACTOR OF 0.5 WITH THE CENTER OF DILATION AT THE ORIGIN.
- ROTATE BLUE' 90° ABOUT THE ORIGIN CW.

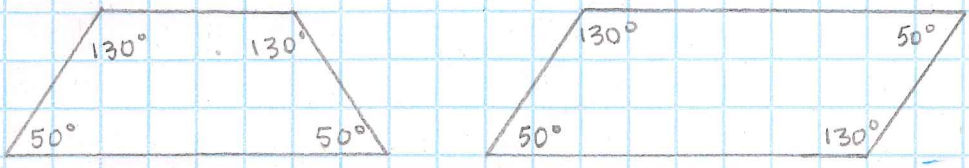
11)



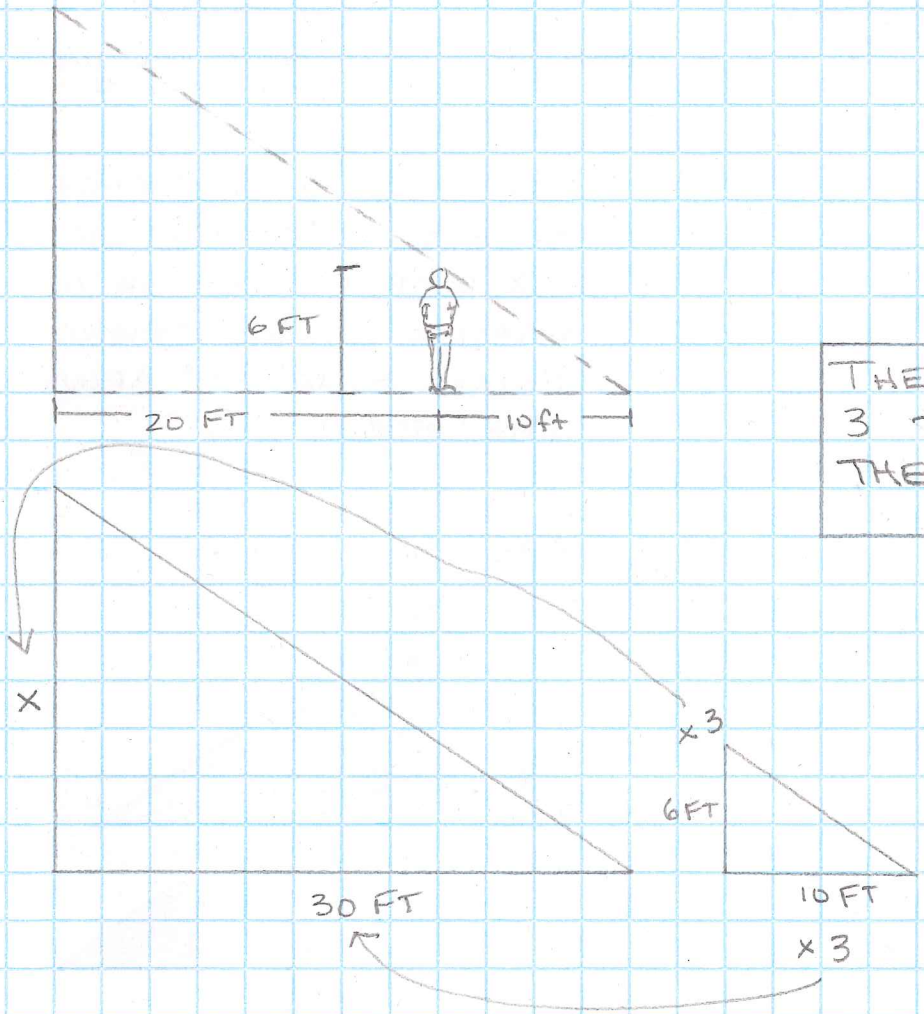
- DILATE THE BLUE FIGURE BY A SCALE FACTOR OF $\frac{1}{3}$ WITH THE CENTER OF DILATION AT THE ORIGIN.
  $A(-5, 5) \rightarrow A'(-5/3, 5/3)$
  $B(-5, -1) \rightarrow B'(-5/3, -1/3)$
  $C(4, -1) \rightarrow C'(4/3, -1/3)$
- TRANSLATE BLUE' RIGHT $3\frac{2}{3}$ UNITS, AND DOWN $3\frac{2}{3}$ UNITS.

#14, 16

14) YES! ONE IS A TRAPEZOID & THE OTHER IS A PARALLELOGRAM.



16)



THE STREETLIGHT IS 3 TIMES TALLER THAN THE PERSON.