Emily's proof of theorem 4. The equation in parentheses is true, but wasn't used in the proof.


This proves $\overline{A B} \subseteq \overrightarrow{A B} \subseteq \overparen{A B}$ (I'm going to squeeze this in as part b of theorem 1)


This proves that $\overleftrightarrow{A D}=\overleftrightarrow{D A}$ (I'm going to squeeze this in as part c of theorem 1)


This is $90 \%$ of the proof of theorem 6. Read the black and brown text from left to right to get the 12 element-of statements.
Then go back and circle (in red) the ones that show what $A$ is an element of, circle (in green) what $B$ is an element of, circle (in blue) what $C$ is an element of, circle (not done yet) in some other color what $D$ is an element of. Notice that all 4 of the points are each in all 3 of the possible lines defined by the other two.


