CO-C9a

Practice Assessment

 Write the inverse and the contrapositive of the following statement: *If a polygon is a square, then it has 4 right angles.* Inverse:

Contrapositive:

2. Write the converse of the following statement. Then combine the statement and converse into a single biconditional statement.

If a triangle has 3 congruent sides, then it is an equilateral triangle. Converse:

Biconditional:

3. Given lines l and m which intersect to create four angles, write a paragraph to prove that $\angle 2 \cong \angle 4$.



CO-C9b

Use the figure for 4 and 5.

4. For this problem only, it is given that $e \parallel f$. Write a paragraph that proves that $\angle 2 \cong \angle 7$.



5. For this problem only, it is given that $\angle 4 + \angle 6 = 180^\circ$. Write a paragraph that proves that $e \parallel f$.

GPE-B5a

6. Are the lines whose equations are given below parallel, perpendicular, or neither? Justify your answer using numerical evidence.

 $\begin{cases} 2x - 6y = 18\\ 3x + y = 6 \end{cases}$

7. Write the point-slope equation of a line that passes through (-3,4) and is parallel to 2x + 6y = 13.

8. Graph a line that is <u>perpendicular</u> to the given line, passing through the given point. Then complete the table.

