

Name: _____

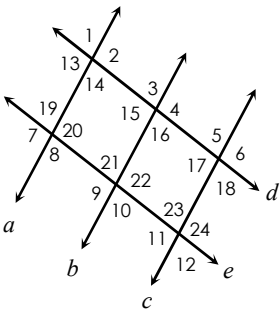
Geometry

Date: _____ Per: _____

Unit 3: Parallel & Perpendicular Lines

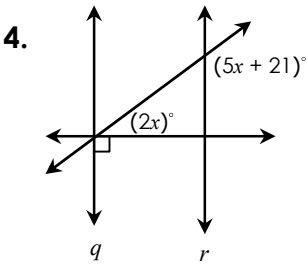
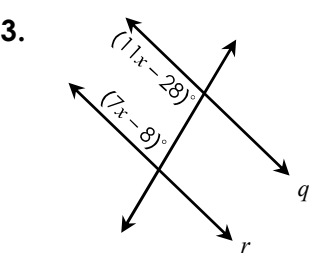
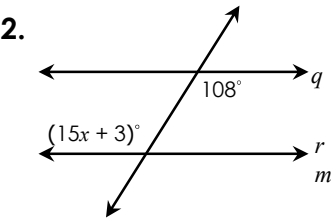
Quiz 3-2: Proving Lines are Parallel

1. Given the diagram to the right and information below, determine which lines, if any, are parallel. State the converse that justifies your answer.



Given	Parallel Lines	Converse
a. $\angle 13 \cong \angle 17$		
b. $\angle 4 \cong \angle 9$		
c. $m\angle 19 + m\angle 22 = 180^\circ$		
d. $\angle 8 \cong \angle 19$		
e. $\angle 10 \cong \angle 23$		
f. $m\angle 14 + m\angle 17 = 180^\circ$		

For questions 2 – 4, find x so that $q \parallel r$. State the converse used.



2. $x =$ _____; Converse: _____

3. $x =$ _____; Converse: _____

4. $x =$ _____; Converse: _____