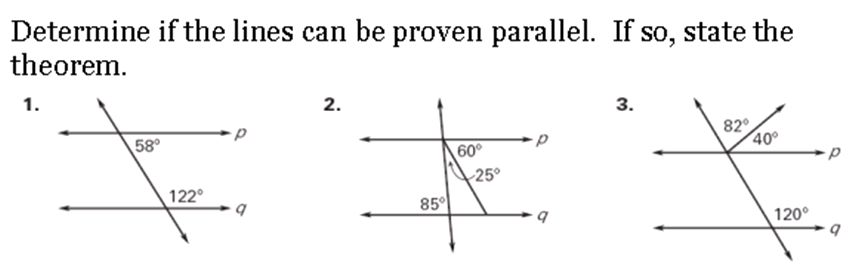
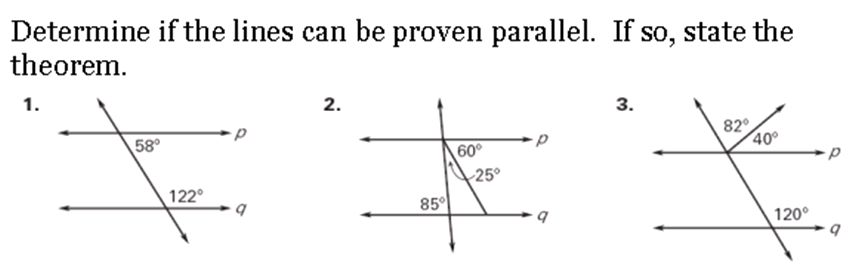
**Follow along and fill in the missing blanks for each theorem. Then, based on the theorem, use the given theorem to determine if the lines are parallel or not parallel. Provide reasoning.**

|  |  |
| --- | --- |
| **Corresponding Angles Converse Theorem:** If 2 lines are cut by a transversal so the corresponding angles are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, then the lines are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. | |
| **Example:**  2  6  j  k | **Non Example:**  3  6  l  k |
|  |  |
| **Alternate Interior Angles Converse Theorem:** If 2 lines are cut by a transversal so the alternate interior angles are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, then the lines are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. | |
| **Example:**  25°  j  k  105°  130° | **Non Example:**  92°  l  k  88° |
|  |  |
| **Alternate Exterior Angles Converse Theorem:** If 2 lines are cut by a transversal so the alternate exterior angles are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, then the lines are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. | |
| **Example:**  j  k | **Non Example:**  28°  l  k  106°  137° |
|  |  |
| **Consecutive Interior Angles Converse Theorem:** If 2 lines are cut by a transversal so the consecutive interior angles are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, then the lines are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. | |
| **Example:**  96°  j  k  84° | **Non Example:**  H  K  J  I |
| **Consecutive Exterior Angles Converse Theorem:** If 2 lines are cut by a transversal so the consecutive exterior angles are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, then the lines are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. | |
|  |  |
| **Transitive Property of Parallel Lines:** | |
| **Example:**  u  t  p |  |

**Is it possible to prove the lines areparallel or not parallel? If so, state the postulate or theorem you would use. If not, state cannot be determined.**



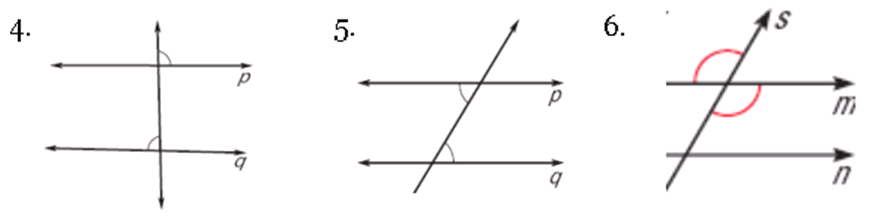
92°

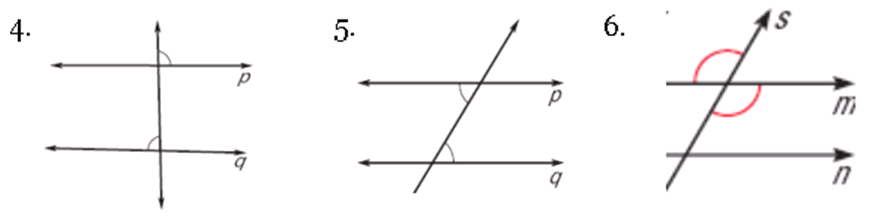
l

k

88°

**1. 2. 3.**





l

k

**4. 5. 6.**

**7. 8. 9.**

105°

75°

A

B

C

D

122°

l

k

58°

m

55°

55°

E

F

G

H

I