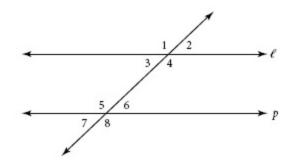


## Practice

## 3.3 Parallel Lines and Transversals

In the figure at right, lines  $\ell$  and p are parallel.

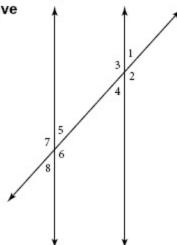
- List all the angles that are congruent to ∠1.
- List all the angles that are congruent to ∠2.



- 3. If  $m \angle 1 = 115^{\circ}$ , find the measure of each angle in the figure.
- 4. If  $m \angle 3 = (3x)^{\circ}$  and  $m \angle 7 = (4x 24)^{\circ}$ , find the measure of each angle in the figure.

For Exercises 5–8, refer to the diagram below. Lines m and n are parallel. Name all angles congruent to the given angle, and give the theorems or postulates that justify your answer.

- 5. ∠6
- 6. ∠8 \_\_\_\_\_



In  $\triangle KLM$ ,  $\overline{NO} \parallel \overline{ML}$  and  $\angle KNO \cong \angle KON$ . Find the indicated angle measures.

- 9. m∠KNO \_\_\_\_\_\_ 10. m∠KON \_\_\_\_\_
- 11. m∠NOL \_\_\_\_\_\_ 12. m∠LNO \_\_\_\_\_
- 13. m∠MNL \_\_\_\_\_\_ 14. m∠KLN \_\_\_\_\_

