

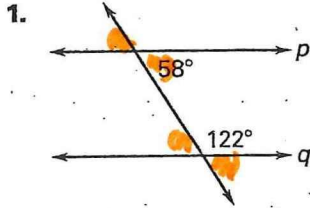
LESSON 3.3

Practice

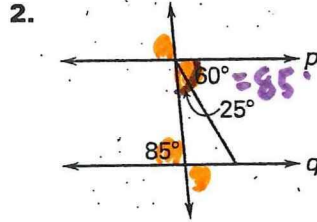
For use with pages 161-169

IF CA \cong CI, then P//q. by CCA
 CA \cong CAI
 AE \cong CAE
 CI \cong CSSI
 supplementary
 CCI or CSSI

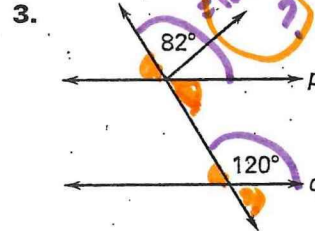
Is there enough information to prove that lines p and q are parallel? If so, state the postulate or theorem you would use.



$58 + 122 = 180 \checkmark$
 P//q by CCI



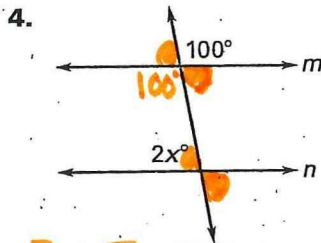
$60 + 25 = 85 \checkmark$
 P//q by CAI



Not enough info.
 $120 = 82 + \boxed{?}$

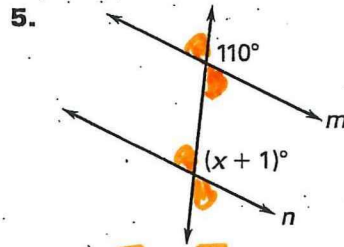
→ can not assume that it is 120 CA

Find the value of x that makes $m \parallel n$.

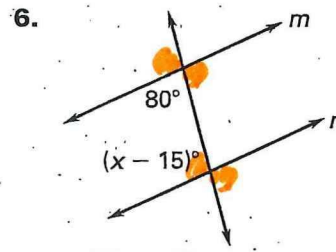


$\square + \square = 180$
 $2x + 100 = 180$
 $2x = 80$

IF $\boxed{x = 40}$, then $m \parallel n$.
 CCI

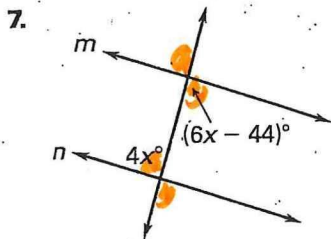


$\square = \square$
 $x + 1 = 110$
 $\boxed{x = 109}$
 m//n CCA



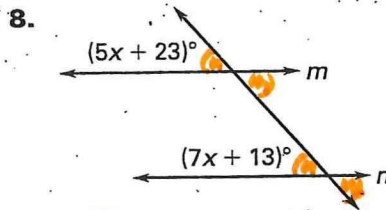
$\square + \square = 180$
 $x - 15 + 80 = 180$
 $x + 65 = 180$
 $\boxed{x = 115}$

m//n by CCI

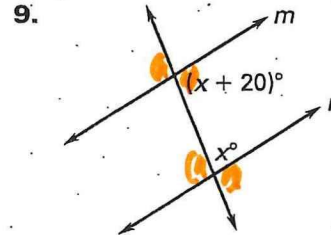


$\square = \square$
 $6x - 4 = 4x$
 $2x - 4 = 0$
 $2x = 4$
 $\boxed{x = 2}$

m//n by CAI



$\square = \square$
 $7x + 13 = 5x + 23$
 $2x = 10$
 $\boxed{x = 5}$
 m//n CCA



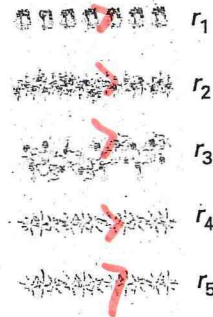
$\square + \square = 180$
 $x + 20 + x = 180$
 $2x + 20 = 180$
 $2x = 160$
 $\boxed{x = 80}$ by CCI

LESSON 3.3 Practice *continued*
For use with pages 161–169

In Exercises 10–12, choose the word that best completes the statement.

10. If two lines are cut by a transversal so the alternate interior angles are (congruent, supplementary, complementary), then the lines are parallel.
11. If two lines are cut by a transversal so the consecutive interior angles are (congruent, supplementary, complementary), then the lines are parallel.
12. If two lines are cut by a transversal so the corresponding angles are (congruent, supplementary, complementary), then the lines are parallel.
13. **Gardens** A garden has five rows of vegetables. Each row is parallel to the row immediately next to it. Explain why the first row is parallel to the last row.

Transitive of //



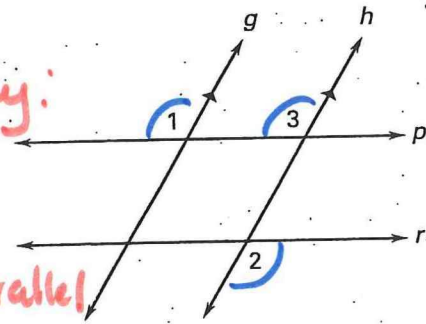
In Exercises 14–18, complete the two-column proof.

GIVEN: $g \parallel h$, $\angle 1 \cong \angle 2$

PROVE: $p \parallel r$, Reasons can only be by:

CCA
CAI
CAE
CCI

to prove lines are parallel



Statements	Reasons
$g \parallel h$	14. Given
$\angle 1 \cong \angle 3$	15. CA ?
$\angle 1 \cong \angle 2$	16. Given
$\angle 2 \cong \angle 3$	17. Transitive
$p \parallel r$	18. CAE ?

LESSON
3.3

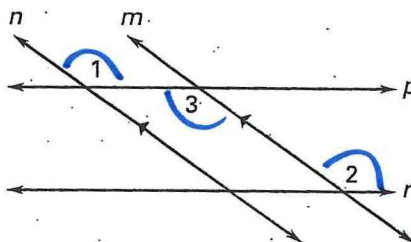
Practice *continued*

For use with pages 161–169

In Exercises 19–23, complete the two-column proof.

GIVEN: $n \parallel m$, $\angle 1 \cong \angle 2$

PROVE: $p \parallel r$ *only be by CCA
CAI
CAE
CCI*



Statements	Reasons
$n \parallel m$	19. Given
$\angle 1 \cong \angle 3$	20. AI?
$\angle 1 \cong \angle 2$	21. Given
$\angle 2 \cong \angle 3$	22. Transitive
$p \parallel r$	23. CAI

24. **Railroad Tracks** Two sets of railroad tracks intersect as shown. How do you know that line n is parallel to line m ?

