Name_____ Date_____ Hour ____

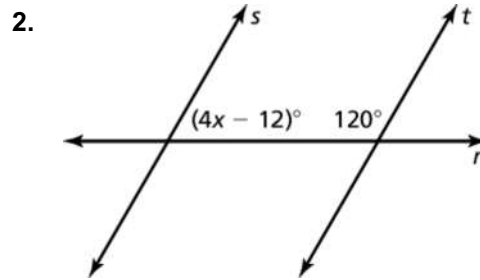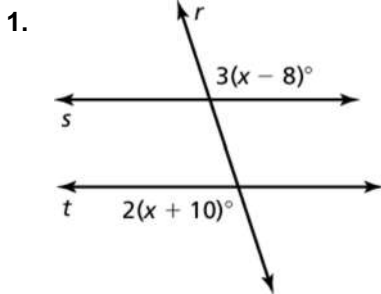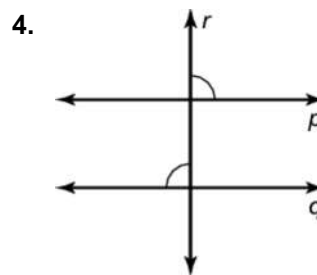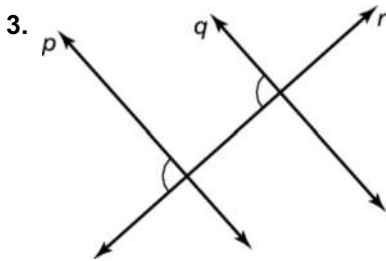## 3.3 Practice A

In Exercises 1 and 2, find the value of _x_ that makes s parallel to t. Show the equation you use.

1.

$3(x - 8)°$

s

t $2(x + 10)°$

2.

$(4x - 12)°$ $120°$

r

In Exercises 3 and 4, decide whether there is enough information to prove that p ‖ q. If so, state the theorem you would use.
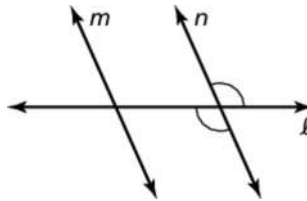
3.

p q r

4.

r

p

q

Thm: _____   Thm: _____
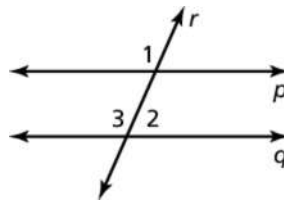
5. Describe and correct the error
   in the reasoning.

   Conclusion: m ‖ n

   m n

   ℓ

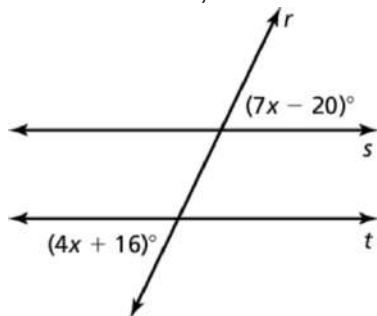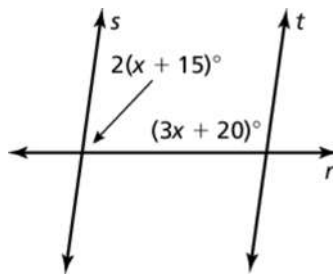6. **Given:** $\angle 1$ and $\angle 2$ are supplementary

   Prove: p ‖ q

   r

   1

   p

   $3 / 2$

   q

Name_____ Date _____Hour __

3.3 Practice B

In Exercises 1 and 2, find the value of x that makes s ‖ t. Show the equation you use.

1.

$(7x - 20)°$
s
$(4x + 16)°$
t
r

2.

s
t
$2(x + 15)°$
$(3x + 20)°$
r

In Exercises 3 and 4, state the theorem you would use to prove that p ‖ q

3.

p
q
r

Thm: _____

4.

r
$x°$
p
$(180 - x)°$
q
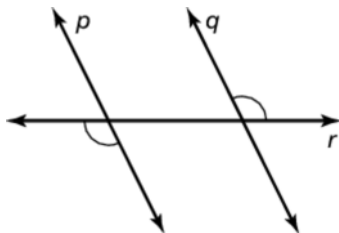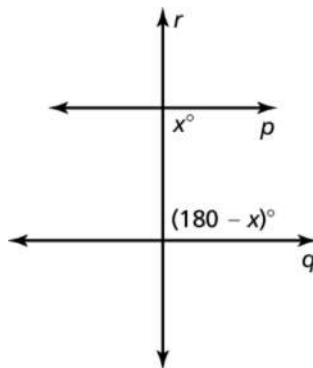
Thm: _____

5. Use the diagram to find the values of x, y, and z that make p ‖ q and q ‖ r. **Show math**.

p
q
r
$(4x - 30)°$ $(6y)°$
$3(x - 1)°$
$6(z + 8)°$ s