

Name: _____

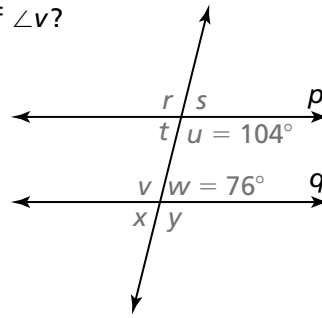
PA-2 Additional Practice

1. **Leveled Practice** If $p \parallel q$, what is the measure of $\angle v$?

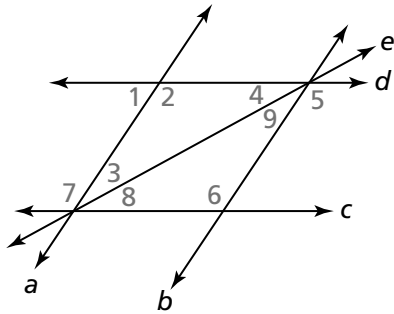
$\angle u$ and $\angle v$ are angles.

So, $\angle u$ and $\angle v$ are .

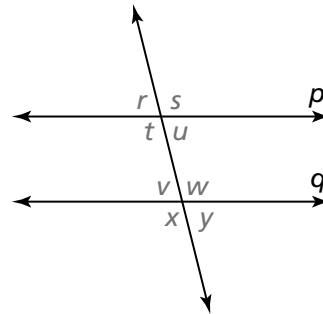
$m\angle v$ is .



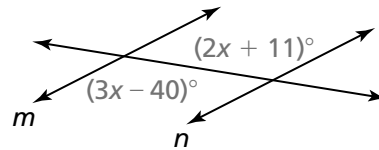
2. Are $\angle 6$ and $\angle 7$ corresponding angles if $a \parallel b$ and $c \parallel d$? Explain.



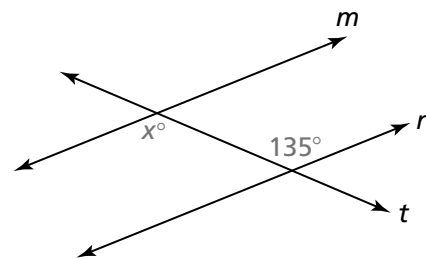
3. Find $m\angle v$ given that $p \parallel q$, $m\angle u = 75.8^\circ$, and $m\angle w = 104.2^\circ$.



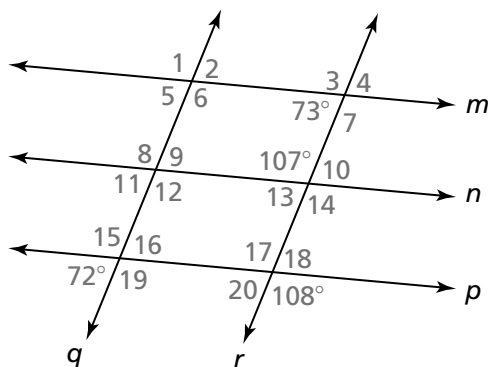
4. In the figure, $m \parallel n$. What is the value of x ?



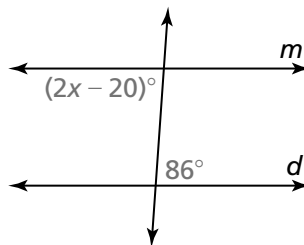
5. **Reasoning** What value of x will show that line m is parallel to line n ? Explain. © MP.2



6. Higher Order Thinking Determine which lines, if any, in the figure are parallel.



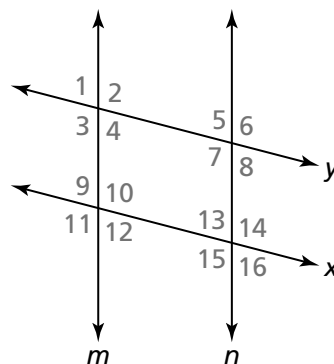
7. In the figure, $d \parallel m$. What is the value of x ?



© Assessment Practice

8. Which statements show that $m \parallel n$? Select all that apply.

- If $m\angle 9 = m\angle 13$, then $m \parallel n$ because if corresponding angles have the same measure, lines are parallel.
- If $m\angle 4 = m\angle 5$, then $m \parallel n$ because if alternate interior angles have the same measure, lines are parallel.
- If $m\angle 12 = m\angle 13$, then $m \parallel n$ because if alternate interior angles have the same measure, lines are parallel.
- If $m\angle 5 = m\angle 15$, then $m \parallel n$ because if corresponding angles have the same measure, lines are parallel.
- If $m\angle 10 = m\angle 14$, then $m \parallel n$ because if alternate interior angles have the same measure, lines are parallel.



9. In the figure, $a \parallel b$. Given $m\angle x = 147.2^\circ$ and $m\angle y = 32.8^\circ$, find the measures of $\angle u$ and $\angle q$. Explain.

