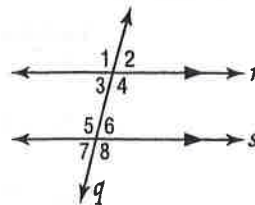


3-2 Skills Practice

Angles and Parallel Lines

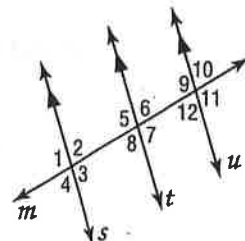
In the figure, $m\angle 2 = 70$. Find the measure of each angle.

- | | | | |
|---------------|-----|---------------|-----|
| 1. $\angle 3$ | 70 | 2. $\angle 5$ | 110 |
| 3. $\angle 8$ | 110 | 4. $\angle 1$ | 110 |
| 5. $\angle 4$ | 110 | 6. $\angle 6$ | 70 |



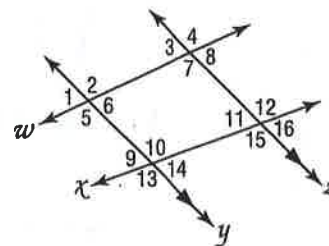
In the figure, $m\angle 7 = 100$. Find the measure of each angle.

- | | | | |
|----------------|-----|-----------------|-----|
| 7. $\angle 9$ | 100 | 8. $\angle 6$ | 80 |
| 9. $\angle 8$ | 80 | 10. $\angle 2$ | 80 |
| 11. $\angle 5$ | 100 | 12. $\angle 11$ | 100 |



In the figure, $m\angle 3 = 75$ and $m\angle 10 = 115$. Find the measure of each angle.

- | | | | |
|-----------------|-----|-----------------|-----|
| 13. $\angle 2$ | 105 | 14. $\angle 5$ | 105 |
| 15. $\angle 7$ | 105 | 16. $\angle 15$ | 115 |
| 17. $\angle 14$ | 65 | 18. $\angle 9$ | 65 |



Find x and y in each figure.

19. $x = 28$
 $y = 47$

20. $x = 10$
 $y = 15$

Find $m\angle 1$ in each figure.

21. 80

22. 72

3-2 Practice

Angles and Parallel Lines

In the figure, $m\angle 2 = 92$ and $m\angle 12 = 74$. Find the measure of each angle.

1. $\angle 10$ 92

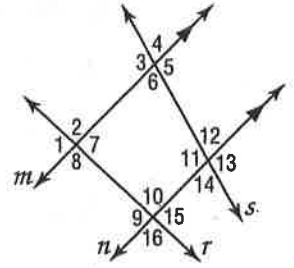
2. $\angle 8$ 92

3. $\angle 9$ 88

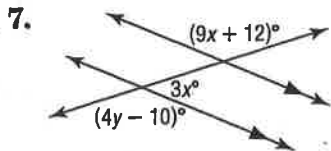
4. $\angle 5$ 106

5. $\angle 11$ 106

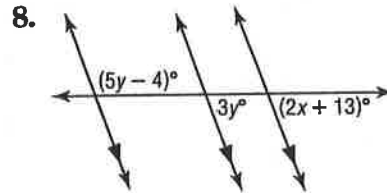
6. $\angle 13$ 106



Find x and y in each figure.

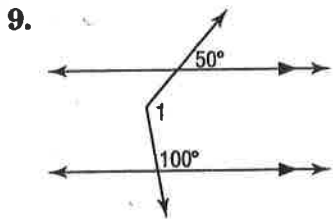


$x = 14$ $y = 37$

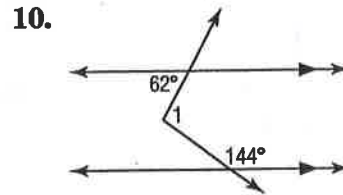


$x = 28$ $y = 23$

Find $m\angle 1$ in each figure.



130



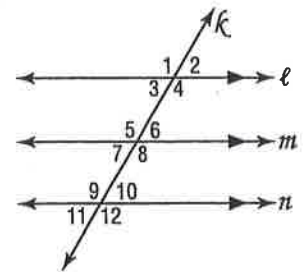
98

11. PROOF ~~Write a two-column proof.~~

Given: $l \parallel m, m \parallel n$

Prove: $\angle 1 \cong \angle 12$

alt. ext. angles



12. FENCING A diagonal brace strengthens the wire fence and prevents it from sagging. The brace makes a 50° angle with the wire as shown.

Find y .

130

