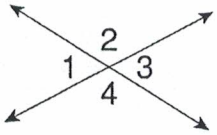
Name _____ Date _____ Class _____

LESSON 8-3

Practice B

Angle Relationships

In the figure, ∠1 and ∠3 are vertical angles, and ∠2 and ∠4 are vertical angles.



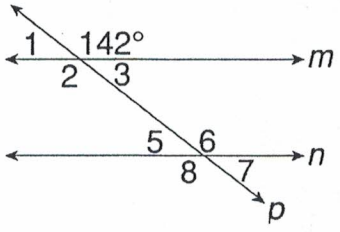
1. If m∠2 = 110°, find m∠4.

_____

2. If m∠1 = n°, find m∠3.

_____

In the figure, line *m* ∥ line *n*. Find the measure of each angle.



3. ∠1

_____

4. ∠2

_____

5. ∠5

_____

6. ∠6

_____

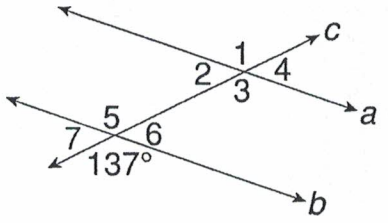
7. ∠8

_____

8. ∠7

_____

In the figure, line *a* ∥ line *b*. Find the measure of each angle.



9. ∠2

_____

10. ∠5

_____

11. ∠6

_____

12. ∠7

_____

13. ∠4

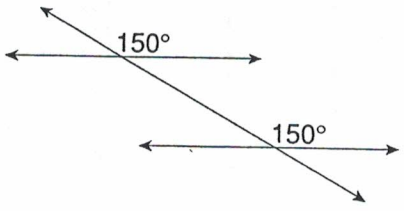
_____

14. ∠3

_____

In each diagram, parallel lines are cut by a transversal and the measure of one angle is given. Write the measures of the remaining angles on the diagram.

4.



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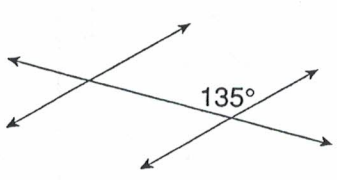

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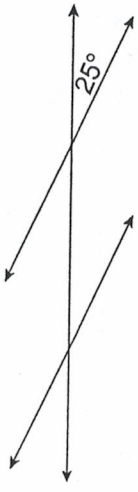

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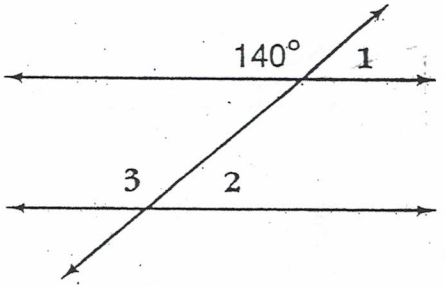
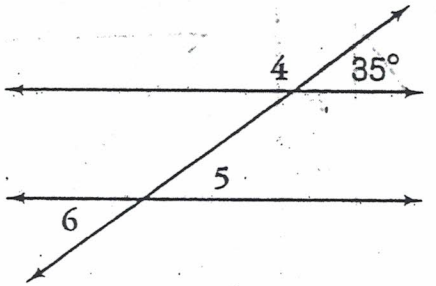
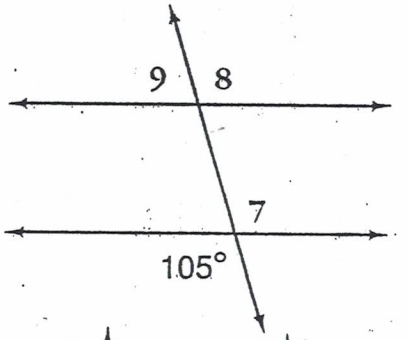
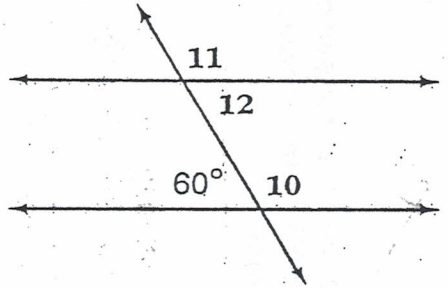
Why Couldn't the Two Elephants Go Swimming Together?

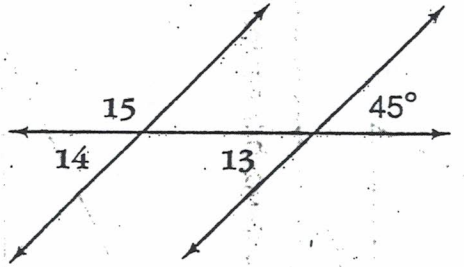
Give the measure of each numbered angle. Find your answer in the Code Key and notice the letter next to it. Write this letter in the box containing the number of the angle. (Assume that lines in each figure that do not intersect are parallel.)

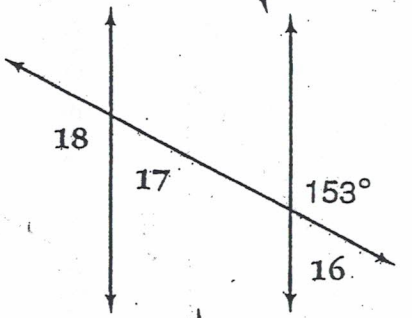


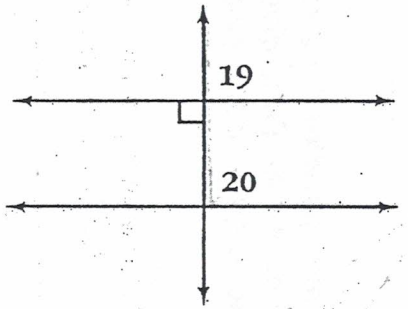


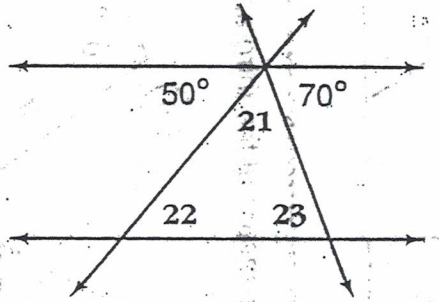


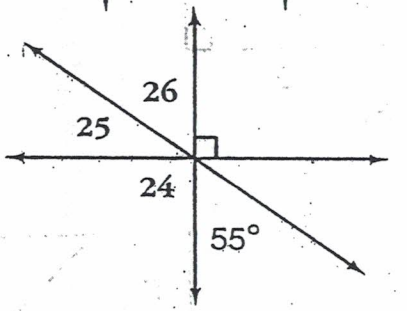












CODE KEY	
27°	A
35°	O
40°	R
45°	Y
50°	I
55°	P
60°	T
70°	U
75°	F
90°	N
105°	H
120°	E
135°	K
140°	L
145°	S
153°	D

12	7	10	14	8	16	18	6	20	3	13	25	19	11	26	17	22	1	5	9	21	2	23	24	15	4