Parallel Lines and Transversals
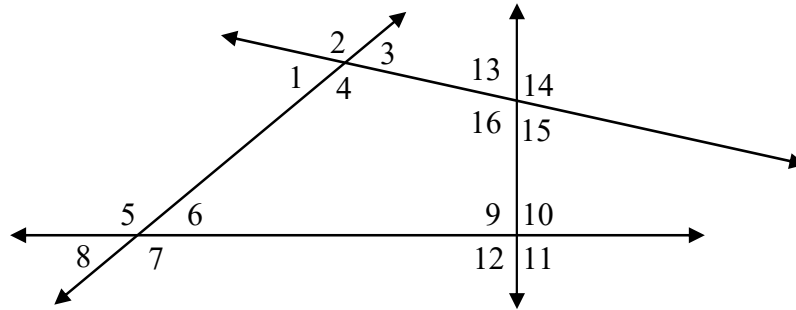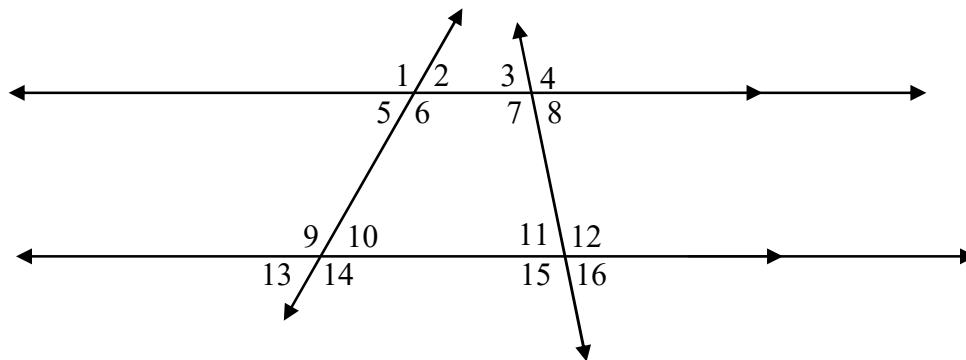

Refer to the <u>above</u> figure and identify the special angle pair name.

1) ∠3 and ∠13 _____

2) ∠8 and ∠10 _____

3) ∠11 and ∠15 _____

4) ∠8 and ∠6 _____

5) ∠1 and ∠6 _____

6) ∠6 and ∠10 _____

7) ∠14 and ∠15 _____

8) ∠2 and ∠9 _____

Let m∠1 = 115° and m∠12 = 110°. Find the missing angles.

9. m∠9 = _____

10. m∠4 = _____

11. m∠10 = _____

12. m∠11 = _____

13. m∠8 = _____

14. m∠5 = _____

15. m∠3 = _____

16. m∠14 = _____

Refer to the <u>above</u> figure and identify the special angle pair name.

17) ∠7 and ∠2 _____

18) ∠6 and ∠14 _____

19) ∠13 and ∠12 _____

20) ∠7 and ∠11 _____

21) ∠4 and ∠8 _____

22) ∠13and ∠16 _____

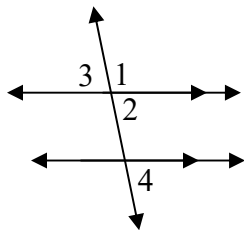**For problems 23-24, use the figure below to identify the angle relationship. Then, find the missing information.**
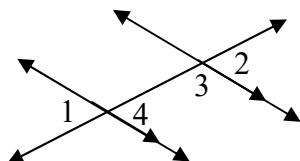
23) Angle relationship_____

$m\angle 1 = 3x - 17°$

$m\angle 2 = x + 1°$

24) Angle relationship_____

$m\angle 3 = 20k + 11°$

$m\angle 4 = 8k + 1°$

x = _____   m∠1 = _____   m∠2 = _____

k = _____   m∠3 = _____   m∠4 = _____

For problems 25-26, use the figure below to identify the angle relationship. Then, find the missing information.

25) Angle relationship_____
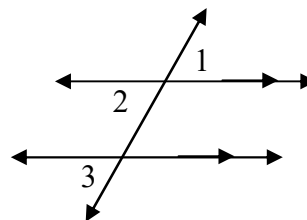
$m\angle 1 = 95° + 7h$

$m\angle 2 = 55° - h$

26) Angle relationship_____

$m\angle 3 = 5k + 12°$

$m\angle 4 = 7k - 16°$

h = _____   m∠1 = _____   m∠2 = _____

k = _____   m∠3 = _____   m∠4 = _____

Use the figure below to identify the angle relationship. Then, find the missing information.

27)   Angle relationship_____

$m\angle 1 = 7y + 16$

$m\angle 2 = 2x$

$m\angle 3 = 4x - 30$

x = _____   y = _____   m∠1 = _____   m∠2 = _____   m∠3 = _____