3.1 Angles Formed by a Transversal

Homework Assignment

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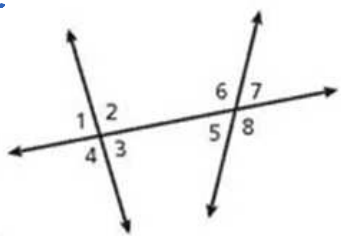
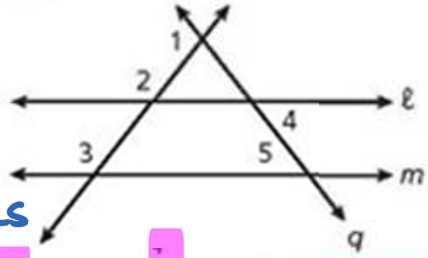
Give an example of each angle pair.

18. same-side interior angles ∠2,∠6 and ∠3,∠5
19. alternate exterior angles ∠1,∠8 and ∠4,∠7
20. corresponding angles ∠1,∠6 ∠4,∠5 ∠2,∠7 ∠3,∠8
21. alternate interior angles ∠2,∠5 and ∠3,∠6



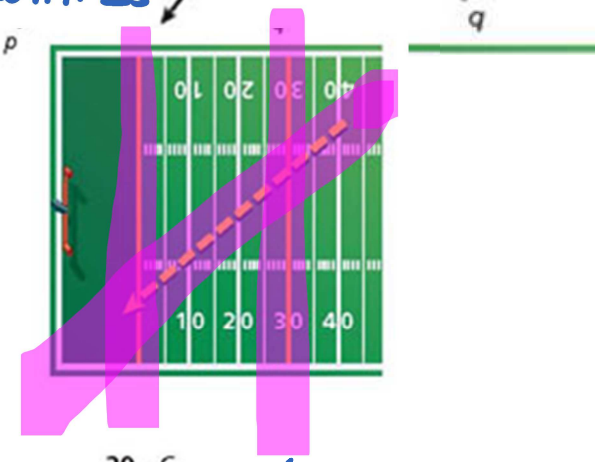
Identify the transversal and classify each angle pair.

22. ∠2 and ∠3 trans p; corr ∠s
23. ∠4 and ∠5 trans q; alt. int ∠s
24. ∠2 and ∠4 trans ℓ; alt. ext ∠s
25. ∠1 and ∠2 trans p, same side int ∠s



26. **Sports** A football player runs across the 30-yard line at an angle. He continues in a straight line and crosses the goal line at the same angle. Describe two parallel lines and a transversal in the diagram.

- the 2 parallel lines are the 30 yard line and the goal line
- the transversal is the path of the runner.



Name the type of angle pair shown in each letter.

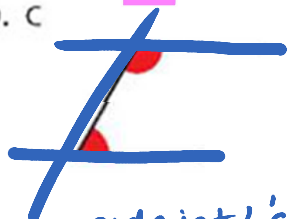
27. F

Corresponding ∠s

28. Z

alternate interior ∠s

29. C



same side int ∠s