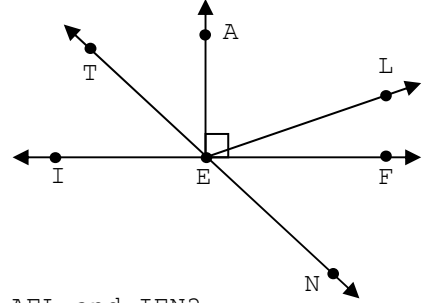


Geometry

Date: _____ Start Time: _____ End Time: _____
 INDEX: _____ Special Pairs of Angles & Perpendicular lines Score: ____/35

1-10. Are the angles complementary, supplementary, or neither?

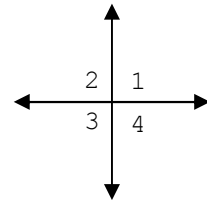
1. Angles LAF and LEA?
2. Angles FET and FEN?
3. Angles LET and FET?
4. Assume angles FEN and AEL are congruent. Angles AEL and IEN?
5. Angles IET and IEN?
6. Angles IET and TEA?
7. Assume Angles FEN and AEL are congruent. Angles FEN and FEL?
8. Angles NEI and FEN?
9. Angles TEL and LEN?
10. Angle FEI and IEN?



11-15. Write the missing statements and justifications in the proof.

Given: The lines are perpendicular.

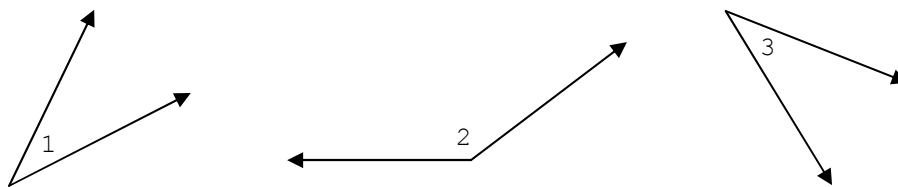
Prove: Angles 1 and 2 are congruent and adjacent.



Proof:	Statement	Justification
11.	The lines are perpendicular	11.
12.		12. Def. of Perpendicular
13.		13. Def. of Perpendicular
14.		14. Def. of Congruent
15.		15. Def. of Adjacent

Geometry

16-19. Write the missing statements and justifications in the proof.



Given: Angles 1 and 3 are supplementary to Angle 2.

Prove: Angles 1 and 3 are congruent.

Proof:	Statement	Justification
16.	$\angle 1$ and $\angle 3$ supplement $\angle 2$	16.
17.	$m\angle 1 = m\angle 2 = 180^\circ - m\angle 2$	17.
18.		19.

20-35. Are the given angles complements, supplements, or neither?

20. 15° and 85°

21. 93° and 87°

22. 39° and 141°

23. 47° and 133°

24. 20° and 60°

25. 186° and 14°

26. 120° and 60°

27. 43° and 47°

28. 29° and 61°

29. 74° and 16°

30. 34° and 66°

31. 31° and 59°

32. 143° and 37°

33. 154° and 36°

34. 93° and 147°

35. 64° and 26°