

## Lesson 2.4

### Homework Answers

Pg 91 - #1-23, 27, 29, 38-41, 45-48

1. a) Angle Addition Postulate	19. $\angle K$
b) Substitution Property	20. $\angle PQR$
c) Simplify	21. 3
d) Subtraction POE	22. $EF + 7$
e) Division POE	23. $\angle XYZ \cong \angle WYT$
2. a) Segment Addition Postulate	27. a) Given
b) Substitution Property	b) Definition of midpoint
c) Distributive Property	c) Substitution POE
d) Simplify	d) Subtraction POE
e) Subtraction POE	e) Division POE
f) Division POE	29. a) $m\angle GFE + m\angle EFI = m\angle GFI$ $\angle$ Add Post.
3. a) Multiplication POE	$9x - 2 + 4x = 128$ Subst. POE
b) Distributive Property	$13x - 2 = 128$ Simplify
c) Addition POE	$13x = 130$ Add. POE
4. a) Distributive Property	$x = 10$ Div. POE
b) Subtraction POE	b) 40
c) Division POE	38. D
5. Reflexive POC	39. B
6. Distributive Property	40. D
7. Division POE	41. A
8. Symmetric POC	45. 80
9. Multiplication POE	46. 125
10. Reflexive POE	47. 65
11. Subtraction POE	48. 90
12. Symmetric POE	
13. Substitution Property	
14. Addition POE	
15. Transitive POC	
16. 15	
17. $5x$	
18. $YU = AB$	