

Ch 5 Worksheet Answers

WS 5-1 Practice

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|-------|--------|-----------------------|--------------------|
| 1. 7 | 2. 16 | 3. 15 | 4. 38 |
| 5. 28 | 6. 19 | 7. Segment NT | 8. segments LH, LN |
| 9. 32 | 10. 37 | 11. Find the incenter | |

WS 5-2 Practice

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|--------------|-----------|-------------|------------|
| 1. 15 | 2. 13 | 3. 26 | 4. 45 |
| 5. 36 | 6. 54 | 7. 3 | 8. 6 |
| 9. 9 | 10. 24 | 11. 36 | 12. 12 |
| 13. (4, 3) | 14. (2,3) | 15. (2, -1) | 16. (0, 9) |
| 17. centroid | | | |

WS 5-3 Practice

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|--------------------------------|---------------------------------|---------------------------------|---------------------------------|
| 1. angle 1 | 2. angle 4 | 3. angle 7 | 4. angle 10 |
| 5. angles 3,4,5,7,8 | 6. angles 5, 7, 8 | 7. angles 1, 3, 5, 9 | 8. angles 6, 9 |
| 9. $m\angle QRW < m\angle RWQ$ | 10. $m\angle RTW < m\angle TWR$ | 11. $m\angle RST > m\angle TRS$ | 12. $m\angle WQR < m\angle QRW$ |
| 13. $DH > GH$ | 14. $DE < DG$ | 15. $EG < FG$ | 13. $DE > EG$ |
| 17. 2 | | | |

WS 5-5 Practice

#1-8 Show Proof!!

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|-------------------|-------------------|-------------------|-------------------|
| 1. yes | 2. no | 3. yes | 4. no |
| 5. yes | 6. yes | 7. no | 8. yes |
| 9. $13 < n < 25$ | 10. $22 < n < 36$ | 11. $14 < n < 40$ | 12. $5 < n < 41$ |
| 13. $13 < n < 83$ | 14. $8 < n < 70$ | 15. $36 < n < 48$ | 16. $47 < n < 61$ |

17. Definition of centroid
Y is the midpoint of DF
 $DY = FY$
Triangle Inequality Thm
Substitution

18. 3