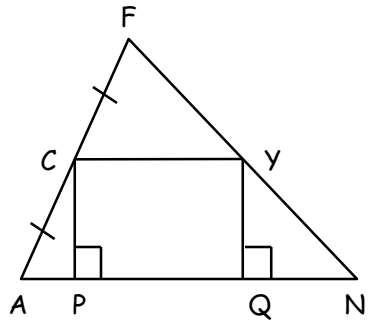
Geometry/Trig
5-3 Homework

Name _____
Date _____

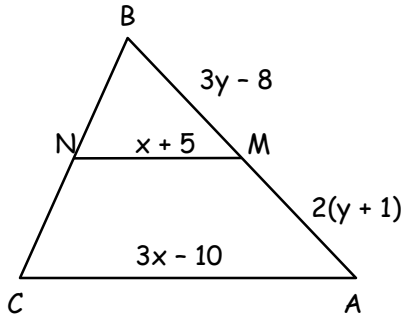
Classify each statement as true or false.

1. _____ If Y is the midpoint of FN, then CY || AN.
2. _____ $CY = \frac{1}{2} AN$.
3. _____ If CY || AN, then Y is the midpoint of FN.
4. _____ If CY || AN, then CP = YQ.



M is the midpoint of AB and N is the midpoint of CB. Find x and y.

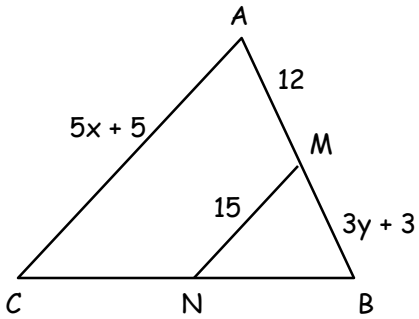
5.



x = _____

y = _____

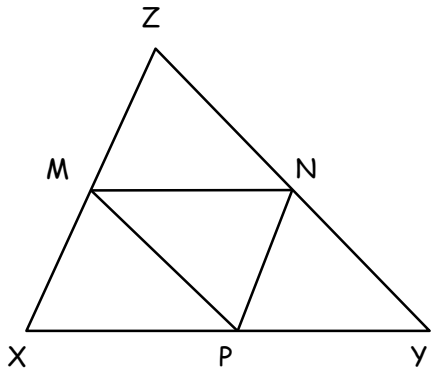
6.



x = _____

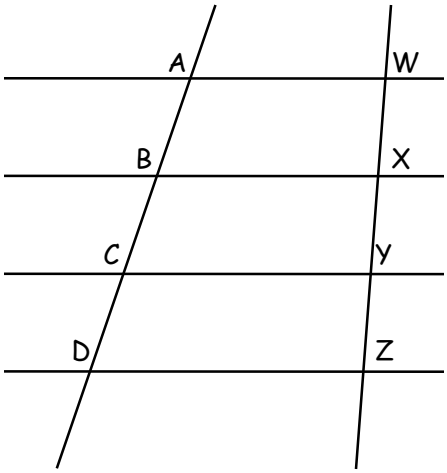
y = _____

M is the midpoint of XZ, N is the midpoint of ZY and P is the midpoint of XY. Find the missing value.



7. If XY = 30, then MN = _____.
8. If MP = 13.5, then YZ = _____.
9. If MZ = 6, then NP = _____.
10. If YZ = 4a, then MP = _____.
11. If $m\angle YNP = 84°$, then $m\angle Z$ = _____.
12. If $m\angle ZMN = 70°$ and $m\angle ZNM = 55°$, then $m\angle X$ = _____.
13. If the perimeter of $\Delta MNP = 36$, then the perimeter of ΔXYZ = _____.

AW, BX, CY, and DZ are parallel and $WX \cong XY \cong YZ$.



14. If AD = 21, then CD = _____.

15. If BD = 32, then BC = _____.

16. If WX = 8x + 4 and YZ = 12x – 8, then x = _____ .

17. If AC = 5x – 8 and AB = x + 5, then x = _____.

18. If WY = 4x + 33 and XZ = 6x – 13, then x = _____.

19. If BC = 7x and AD = 9x + 24, then x = _____.

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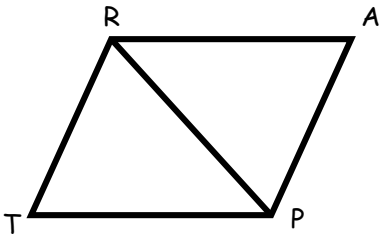
20) Given: PART is a parallelogram

Prove: $\Delta RTP \cong \Delta PAR$



Statements	Reasons