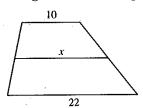
Geometry/Trig 2	Name:									
Medians in Trapezoids Worksheet Date:										
All figures in this worksheet are trapezoids.										
DC		1	2	3	4	5	6	7		
	DC	14	7.2	21	8			19		
	AB	30	12.6			30	66	31		
/ MN is the median	MN			28	18	25	40			
M	8.	If AM	= 14, †	nen DN	\ =	and	AD = _	·		
9. If CB = 46, then CN = and BN = 10. If AM = 3x + 2 and DM = x + 18, then										
									A	B x =
CC is the amoralism		TU	is the r	nedian			× =			
EF is the median  x =			13 1116 1	nealan			^ PS =			
B <i>C</i> =							UT =			
B $4x - 7$ C $AD = $			Q	12	R					
50			т <u>/ 3х</u> _ U							
F	4x									
6x + 27										
<i>A</i> D		P				<u> </u>				
KL is the median $x = $			QR is the median × =							
HI =								NO =		
KL =						(	QR = _			
H <sub>24-×</sub> I <i>G</i> J=		N		6x + 3		0	MP = _			
K / 4x \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			Q 6x - 4 R							
<i>G</i>										
J										

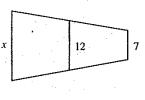
## **Trapezoids**

For use after Section 5-5

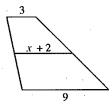
Each diagram shows a trapezoid and its median. Find the value of x.

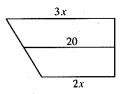
1.





3.

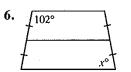




 $x = \_$ 



18



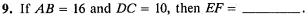
Exs. 7-12

In Exercises 7-12  $\overline{EF}$  is the median of trapezoid ABCD. Complete.

7. If  $m \angle A = 63$ , then  $m \angle DEF =$ \_\_\_\_\_ and

 $m \angle D = \underline{\qquad}$ 8. If  $m \angle CFE = 72$ , then  $m \angle B = \underline{\hspace{1cm}}$  and

 $m \angle C = \underline{\hspace{1cm}}$ 



10. If AB = 21 and EF = 18, then  $DC = _____$ .

11. If ABCD is isosceles and  $m \angle B = 65$ , then  $m \angle A = \underline{\hspace{1cm}}$ ,  $m \angle D = \underline{\hspace{1cm}}$ , and  $m \angle C = \underline{\hspace{1cm}}$ 

12. If ABCD is isosceles, name all angles congruent to  $\angle A$ .

In Exercises 13-17 IJ = JL = LG and IK = KM = MH.

13. If JK = 5, then  $LM = ____$  and  $GH = ____.$ 

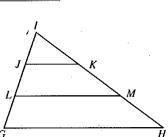
**14.** If LM = 12, then JK =\_\_\_\_\_ and GH =\_\_\_\_.

**15.** If JK = 10 and LM = x + 8, then  $x = _____$ .

**16.** If GH = 36, then  $LM = _____$  and  $JK = _____.$ 

17. If LM = 4x and GH = x + 6, write JK in terms of x.

 $JK = \underline{\hspace{1cm}}$ . Then  $x = \underline{\hspace{1cm}}$ .



Exs. 13-17