

II. Find the value of the variables in each triangle. SHOW YOUR WORK.



III. \overline{CG} , \overline{EH} , and \overline{FJ} are midsegments of ΔABD , ΔGCD , and ΔGHE , respectively. Find each measure.

A	6. <i>CG</i>	7. <i>EH</i>
33		
G	8. FJ	9. <i>m∠DCG</i>
F H 57° B		
<i>J C</i> 22	10. $m \angle GHE$	11. $m \angle FJH$
٥		



15. Graph $\triangle ABC$, given $A(-5,-5)$,	16. Find and graph point D , the midpoint of \overline{AB} . Find and graph	
B(-3,5) , and $C(7,-1)$.	point E , the midpoint of $\overline{BC}.$ Then draw in $\overline{DE}.$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$D(___,__]) \text{ and } E(__,__])$ $\frac{17.}{DE} \text{ is also known as a }_\ of \\ \Delta ABC.$ 18. What properties are true of a triangle's midsegment?	
19. Find m_{DE} .		
	$m_{DE} = $	
20. Without actually finding it, what would be m_{AC} ? How do you know this?		
<i>m</i> _{AC} = because		
21. Find the equation of the line containing \overline{DE} in standard form.		
	<i>x</i> + <i>y</i> =	
22. Find DE . (simplified radical form)		
	<i>DE</i> =	
23. Without actually finding it, what would be AC ? How do you know this?		
AC = because		