Geometry	(E)
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## Geometry Segment Addition, Midpoint, Bisectors

Make a sketch and solve for the lengths indicated.

1.	Points A, B and C are collinear, where B is between A and C.			
	AC = $4x+11$ , AB = $3x+4$ , BC = $2x-5$ . Find AB, BC and AC.			
				Γ
0		AB =	BC =	AC =
2.	Points A, B, C and D are collinear, where B is between A and C and C is between B and D.			
	AB = x, $BC = 2x+4$ , $CD = 3x-9$ and $AD = 46$ . Find $AB$ , $BC$ , $CD$ , $AC$ , and $BD$ .			
			Γ	T
		AB =	BC =	CD =
3.	H is the midpoint of GK.	AC =	BD =	
	GH= 3 <i>x</i> +1, GK= 26. Find GH, HK and GK.			
		GH =	HK =	GK =
4.	Point E <u>bisects</u> segment DF.	GII -	TIK -	GK -
	DE = $x$ +6, EF = $2x$ +8. Find DE, EF, and DF.			
		DE =	EF =	DF =
		DE -	LF -	DF -

5.	M is the <u>midpoint</u> of LN.			
	LM = $x^2$ , MN = $6x+7$ . Find the two possible lengths of LM, MN and LN.			
		Possible Lengths #1		
		LM = MN = LN =		LN =
		Possible Lengths #2		
6.	Line segment PT is <u>trisected</u> at points R and S.	LM =	MN =	LN =
0.	RS = 4x+5 and PT = 42. Find PR, RS, ST, PS, and RT.			
		PR =	RS =	ST =
7.	In Triangle OFIV a madian is drawn from angle	PS =	RT =	
7.	In Triangle GFK, a <u>median</u> is drawn from angle F and intersects side GK at point H.			
	GH = $7x + 1$ and GK = $8x + 28$			
	Find GH, HK and GK			
		GH =	HK =	GK =