ES473 Topographic Measurements and Slope Profiling Exercise

Using the attached copy of the northeast quadrant of the Falls City Quadrangle, complete the following map-related activities.

1.	Using a ruler and graphical scale of the nunit algebra. Place answer below.	nap, determine the fractional scale. Show all of your math work and	
	SCALE 1:		
2.	What is the contour interval of the map?	Pft	
3.	Examine the course of the Little Luckiam main channel of the Little Luckiamute.	ute River. Using a colored pencil, carefully highlight the trace of the	
	A. Which direction is the river flowing?		
4.	4. Calculate the gradient of the Little Luckiamute channel, between points 2 and 3. Fill in the data table below. Show all of your math work.		
Elevatio	on of Point 2 Ft	Distance Between Pt. 2 and 3 Ft	
Elevatio	on of Point 3 Ft	Stream Gradient Ft / Ft	
Elevation Difference between pt. 2 and 3 Ft Stream Gradient Ft / Mi			
5.	Determine the hillslope gradient betwee algebra.	en points X-Y and points M-N. Show all of your math work and unit	
Elevation	on Difference X-Y ft	Horizontal Distance X-Y ft	
Gradie	nt X- Y degrees	Gradient X-Y percent	
Elevatio	on Difference M-N ft	Horizontal Distance M-N ft	
Gradie	nt M-N degrees	Gradient M-N percent	
Which	hillslope segment is steeper X-Y or M-N?		
6 Draw a tonographic profile alon line A-B using the attached graph paper			

