FRST 121T Terrain Lab

Name: _____

Answer the following questions in a neat and organized fashion. <u>Show all calculations</u> and be sure to <u>include units</u>. Neatness will be a consideration in marking. Staple this sheet as your cover page; also attach the maps.

Refer to the map sheet 92 F/5 Bedwell River (© 1994).

- 1. What is the elevation of the lake located along Cotter Creek (@ ~293,000m E)? What is the elevation of the small round lake that drains into Cotter Creek (@ ~295,000m E, just below the second "v" in Vancouver)?
- 2. What is the average slope (in percent) from the top of Mount Saavedra to the shore of Bedwell Sound? What is the slope distance from the top of Mount Saavedra to the shore of Bedwell Sound?
- 3. Draw a profile that coincides with the easting of 286,000m from the shore of Hecate Bay (at the Cypre River Airfield) to far side of Peneetle Indian Reserve. Use a horizontal scale of 1: 50,000. For the vertical scale use "1 box" = 40 m elevation on the graph paper provided. Be sure to provide a title and label the axis. Also label any cultural (roads, property, etc.) or physical (water) features on the profile. What is the vertical scale of the profile?
- 4. Look at the Bedingfield Range note the end of the road located @ ~ 292,300m Easting (below the "G"). On the map <u>carefully</u> draw a walking route from the end of this road to the peak of Mount Saavedra. Continue the route to Mount Guemes and then on to spot height '1392'. The route should follow the 'easiest path' (i.e. stay along ridge lines and avoid steep slopes).
- On the "Moose Lake" map, plot a road location from "A" to "B" that maintains and does not exceed 6%. With a different pen colour, plot a second road that maintains and does not exceed 8%. Label both routes. Determine the HD and SD of the 6% road.