CROSS SECTION OF A HIKING ROUTE OVER HILL AND DALE

Sum of ALL elevation gains along hiking route = 760 ft
Sum of ALL elevation losses along hiking route = −360 ft

Difference between gains and losses should equal the net elevation difference of 400 ft

Net elevation = 1530 ft. − 490 ft. = 1040 ft.

Total elevation gains along line = 1220 ft. Total elevation losses along line = −180 ft.
Difference of these totals should equal net elevation difference
1220 ft. − 180 ft. = 1040 ft.
Elevation of Pt. A = 5560 ft.
Elevation of Pt. B = 5800 ft.
Net elevation =
5800 ft. - 5560 ft. = 240 ft.

Total elev. gains along line = 1920 ft.
Total elev. losses along line = -1680 ft.

Difference of these totals should equal net elevation difference

5800 ft. - 5560 ft. = 240 ft.

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\begin{array}{c c c}
+ & - \\
\text{A to ridgetop} = 3 & \text{ridgetop to stream} = 8 \\
\text{stream to peak} = 20 & \text{peak to base of hill} = 13 \\
\text{base of hill to top of hill} = 1 & \\
\text{Tdl. contour lines crossed} = 24 & \text{Tdl. contour lines crossed} = 21 \\
24 \times 80 = 1920 \text{ ft.} & \text{21} \times 80 = 1680 \text{ ft.} \\
\end{array}
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Net elevation difference = 240 ft.