

# Inclined Planes

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Name: \_\_\_\_\_ Date: \_\_\_\_\_

Logan ( $m = 78\text{kg}$ ) in his championship run was riding down an incline of  $57^\circ$  (quadruple black diamond!). The friction between the board and the snow is 0.24. Logan is also battling a wind that is exactly horizontal to the slope of the surface and based on his surface area is exerting a resistive force of 115 N. Calculate Logan's acceleration down the hill.

