

# Dynamics Warm-Up

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

Physics penguin (mass of 2.3kg) is out for a quick slide in his Antarctic home . He goes for a quick run across the snow and reaches a patch of ice. At the point of reaching the ice patch was moving at speed of 3.7 m/s. He then dives and slides across the ice. The coefficient of friction between his feathers and the ice is 0.12. Calculate the distance the penguin slides across the ice before coming stopping. Include the FBD.

