

# MA 16010 Quiz 6

Lesson 16

28 February 2022

**Problem 1.** A boat is pulled into a dock by a rope attached to the front of the boat and passing through a pulley on the dock that is 1 meter higher than the front of the boat. If the boat is pulled at a rate of 1 m/s, how fast is the boat approaching the dock when it is 8 meters away from the dock?

To receive full credit you must show your work.