

# TUTORIAL TEST 1

Surname:  Initials:

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## Classical Mechanics - PHY263

Tutorial Test 1 - 6 August 2020

Time: 25 minutes

Total: 15 marks

1. A block of mass  $m_1$  is pulled up an inclined plane by a second block of mass  $m_2$  that is connected by a massless string to block 1 over a frictionless pulley. The inclined plane is raised to an angle  $\theta$  above the horizontal level. There is a frictional force  $f = \mu N$ , with  $\mu$  the coefficient of friction between block  $m_1$  and the inclined plane and a normal force  $N$  is also exerted on it.



- (a) Write down the vector equation(s) of motion for the problem.

(2)

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- (b) Using the appropriate component equations of the vector equation(s) in (a) together with a choice of coordinate system, find a general relation for the position of block  $m_1$  as a function of time  $t$ .

(8)

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# Optics Semester Test Study Guide Answers

**Joacim Rocklöv**



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