

GNG 1105E Take-home Assignment

Due: November 19, 2015 at 2:30 pm

This assignment may be submitted as a hard copy or electronically. In either case, this signed cover page must be submitted with the rest of the assignment. Late assignments will not be accepted.

This assignment is open-book, but **must be completed individually**. By signing below, you are declaring that you have completed this assignment on your own without the help of others. Unsigned assignments will not be graded.

If submitted, this assignment will constitute 10% of your final grade and the weight of your final exam will be reduced to 50%.

Name: _____

Student Number: _____

Signature: _____

The wedge below (blue shaded area) weighs 25 kN and is supported by roller supports at A, B, and C. In addition to its self-weight, a 10 kN force is applied at point D at an angle of 45° .

- Draw the free-body diagram
- Find the reaction forces at A, B, and C.

