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**UiT** / THE ARCTIC UNIVERSITY  
OF NORWAY

## Assignment 1

**TST-101 – Test course**

**The name**

**April 10, 2018**

Contains 2 pages, front page included

INSTITUTE OF PHYSICS AND TECHNOLOGY

## Problem 1

**a)** Gauss law tells us that

$$\oint_S \vec{E} \cdot d\vec{S} = \frac{Q_{\text{enc}}}{\varepsilon_0}$$