Mathematics 1550H – Introduction to probability
Trent University, Summer 2016
Assignment #3
"The only way to win is cheat … "
Due Monday, 11 July, 2016.

In the Kafka-esque dystopian future in which mathematical scientists have taken over the world, you are condemned* to working out the base 7 expansion of π by hand unless you can correctly answer the following question:

> *If you were to pick an answer to this question at random from among the choices below, what is the probability that it would be correct?*
> (a) 0.2
> (b) $1/\pi$
> (c) 1/5
> (d) 0.0
> (e) 4/10

1. Explain! *[5]*

While serving your sentence of computing the base 7 expansion of π by hand, your appeal goes forward. The court decides it will reduce your sentence to time served if you can answer the following question correctly:

> *How many letters are there in the answer to this question?*

2. Well? *[5]*

Remember: no one expects the Mathematical Inquisition!

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* For writing that $\frac{1}{2} + \frac{1}{3} = \frac{1+1}{2+3} = \frac{2}{5}$. At least you didn't divide by 0 … :-)