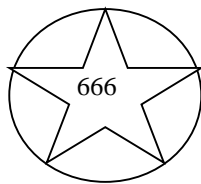


MATHS PAPER

1. A victim of the evil Venezuelan military regime is being tortured by being put on a chair and bounced up and down in SHM. If the period of the motion is 4.5 secs, what is the most shamelessly ideological and partisan part of this question?
2. A man is playing a casino game where a die is thrown 4 times and if 2 sixes show up, he wins. How stupid is he to play such an unwinnable game? (Answer to nearest IQ point)
3. Find the stationary points of $y = \log(\sin(x))$ without using calculus. Then, write them down without a pen.
4. [How's this 4a vague question] Find the remainder when one polynomial is divided by another (show ALL working)
5. Examine the following diagram very carefully:



VERY carefully! (Mwa-ha-ha-ha-ha!)

6. Make up a pointless trig identity with at least 5 functions and then fiddle around with it at random.
7. Find the next term in the series:
 - T1: You get an impossible sequences and series question
 - T2: You stuff it up and hence fail your HSC
 - T3: You become an alcoholic bum
 - T4: You dance for pennies on Oxford Street
 - T5: ?

GOOD LUCK!!