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| **C:\Users\u6148074\Desktop\Australian_National_University_logo.png** | **ENGN2228 Signal Processing** |
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| **Name: ID:** |

**Bonus Problem 1:** Determine whether the following signals are periodic or not and explain briefly your answer. If it is periodic, what is the fundamental period?

1. , where

|  |
| --- |
| **Answer:** |

|  |
| --- |
| **Answer:** |

1. , where is **any** **irrational constant**.

|  |
| --- |
| **Answer:** |

**Bonus Problem 2:** Assume that and are as given in Fig. 1 below. Find the values and ?

C:\Users\u6148074\Desktop\1.emf C:\Users\u6148074\Desktop\2.emf

Figure 1: and for bonus problem 2.

|  |
| --- |
| **Answer:** |

Good Luck ☺