

KFUPM  
Mathematics & Statistics

Term 171  
MATH 101  
Quiz# 2

Date: 22/10/2017  
Duration: 10 minutes

Name:

ID #:

Section: 30 Serial #:

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Find the interval on which  $g(x) = \left\lfloor \left\lfloor \frac{1}{2}(\cos x + 1) \right\rfloor \right\rfloor$  is continuous, where  $\llbracket k \rrbracket$  is the greatest integer less than or equal to  $k$ .

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*With My Best Wishes*

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Find all the asymptotes of  $f(x) = \frac{x^3 - x^2 - x + 1}{4 - 3x - x^2}$  if any. Explain in detail.

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