

DEPARTMENT OF MATHEMATICAL SCIENCES
MATH 301 Methods of Applied Mathematics Term 061

QUIZ #5(a)

Name _____ ID # _____ Section # _____

Q1) Find the *Fourier cosine* and *Fourier sine* series in $0 < x < 4$.

$$f(x) = \begin{cases} 1, & 0 < x < 2 \\ -1, & 2 \leq x < 4 \end{cases}$$

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QUIZ #5(b)

Name _____ ID # _____ Section # _____

Q1) Find the *Fourier cosine* and *Fourier sine* series in $0 < x < \pi$.

$$f(x) = \begin{cases} -\frac{1}{2}, & 0 < x < \frac{\pi}{2} \\ \frac{1}{2}, & \frac{\pi}{2} \leq x < \pi \end{cases}$$

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QUIZ #5(c)

Name _____ ID # _____ Section # _____

Q1) Find the *Fourier cosine* and *Fourier sine* series in $0 < x < 3$.

$$f(x) = \begin{cases} -1, & 0 < x < 1 \\ 0, & 1 \leq x < 2 \\ 1, & 2 \leq x < 3. \end{cases}$$