

King Fahd University of Petroleum and Minerals
Department of Mathematical Sciences
Math 102.07 Quiz IIA Fall 2004 (041)

ID #: _____ NAME: _____

Serial # _____ Section #: _____

1. Find the value of the sum $\sum_{i=1}^n i(i+1)$.

2. Evaluate the telescoping sum $\sum_{i=1}^n \left[\frac{1}{i} - \frac{1}{i+1} \right]$.

3. Find the area bounded by $f(x) = 1 - x$, y -axis and $[0, 2]$ by taking x_k^* the right endpoint in the partition of $[0, 2]$.

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ID #: _____ NAME: _____

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1. Find the value of the sum $\sum_{i=1}^{n-1} i(i+1)$.

2. Evaluate the telescoping sum $\sum_{i=1}^n [i^4 - (i-1)^4]$.

3. Find the area bounded by $f(x) = 1 + x$, the line $y = 2$ and $[0, 2]$ by taking x_k^* the right endpoint in the partition of $[0, 2]$.