# MTH 132.12 Quiz 10 

Friday 8 April 2011

## Name:

Show all your work. Points will be deducted for incomplete work. No calculators are allowed.

1. Write the following sums using $\Sigma$ notation.
(a) $2+5+8+11+14+17+20$
(b) $\frac{1}{2}+\frac{1}{3}+\frac{1}{4}+\frac{1}{5}+\frac{1}{6}+\frac{1}{7}+\frac{1}{8}$
2. Suppose $\sum_{k=1}^{n} a_{k}=2$ and $\sum_{k=1}^{n} b_{k}=3$.
(a) What is $\sum_{k=1}^{n}\left(2 a_{k}+b_{k}\right)$ ?
(b) What is $\sum_{k=1}^{n}\left(b_{k}+1\right)$ ?
3. What is $\int_{1}^{5} \sqrt{16-(x-1)^{2}} d x$ ? (Hint. The graph $y=\sqrt{16-(x-1)^{2}}$ is a familiar shape.)
