## Math 156: Test 3 Formula Sheet

$$
\begin{gathered}
a_{n}=a_{m}+(n-m) d \\
S_{k}=\frac{k}{2}\left(a_{m}+a_{n}\right) \\
S_{k}=\frac{k}{2}\left[2 a_{m}+(n-m) d\right] \\
a_{n}=a_{m} r^{n-m} \\
S_{k}=\frac{a_{m}\left(1-r^{k}\right)}{1-r} \\
S_{\infty}=\frac{a_{m}}{1-r}
\end{gathered}
$$

