1. Evaluate the sum $: \sum_{\text {(answer typed below) }}^{36}\left(2 k^{2}-50\right)$
2. In an arithmetic sequence, $\mathrm{a}_{14}=-16$ and $\mathrm{a}_{22}=0$.

Find $a_{75}$.
3. Find the sum of the integers 1 to 100 .
4. Write a recursive formula for the sequence ; $2,6,18, \ldots$
5. Write an explicit formula for the sequence: $12,9,6,3, \ldots$
6. Graph $7 x+2 y=4$ by the $x$ and $y$ intercepts.

