**Summation Questions**



Now try these…

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1. | $$\sum\_{r=1}^{16}5\left(r+1\right)+2^{r+1}$$ |  | 5. | $$\sum\_{r=1}^{5}\left(\frac{1}{10}\right)^{r}$$ |  |
| 2. | $$\sum\_{r=1}^{8}5\left(2r+1\right)+2^{2r+1}$$ |  | 6. | $$\sum\_{r=1}^{5}\frac{3}{10^{r}}$$ |  |
| 3. | $$\sum\_{r=1}^{10}3^{r}-4\left(r-1\right)$$ |  | 7. | $$\sum\_{r=1}^{5}\left(\frac{3}{10}\right)^{r}$$ |  |
| 4. | $$\sum\_{r=1}^{5}\left(\frac{1}{2}\right)^{r}$$ |  | 8. | $$\sum\_{r=1}^{16}r^{2}$$ |  |

**Summation Questions - Answers**



Now try these…

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1. | $$\sum\_{r=1}^{16}5\left(r+1\right)+2^{r+1}=262900$$ |  | 5. | $$\sum\_{r=1}^{5}\left(\frac{1}{10}\right)^{r}=0.11111$$ |  |
| 2. | $$\sum\_{r=1}^{8}5\left(2r+1\right)+2^{2r+1}=175160$$ |  | 6. | $$\sum\_{r=1}^{5}\frac{3}{10^{r}}=0.33333$$ |  |
| 3. | $$\sum\_{r=1}^{10}3^{r}-4\left(r-1\right)=88392$$ |  | 7. | $$\sum\_{r=1}^{5}\left(\frac{3}{10}\right)^{r}=0.42753$$ |  |
| 4. | $$\sum\_{r=1}^{5}\left(\frac{1}{2}\right)^{r}=0.96875$$ |  | 8. | $$\sum\_{r=1}^{16}r^{2}=1496$$ |  |