

First simplify by applying the distributive property. Then combine like terms.

$$\begin{aligned}8(mn^2 + m) - 4m(6n^2 + 3) + 2m &= 8mn^2 + 8m - \\ &24mn^2 - 12m + 2m \\ &= (8 - 24)mn^2 + (8 - 12 + 2)m = -16mn^2 - 2m\end{aligned}$$