

Rewrite the following.

1)  $\sum_{m=20}^{33} \left( \frac{2}{3} + \frac{1}{m} \right)$  ; starts at  $m = 4$

2)  $\sum_{r=5}^{11} \frac{r!}{6!}$  ; starts at  $r = 15$

3)  $\sum_{z=8}^{18} (5^z - 1)$  ; s

starts at  $y = 21$

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5)  $\sum_{x=11}^{28} \left( \frac{x^2}{(x+6)^2} \right)$  ;

+ 1)) ; starts at  $u = 3$

7) Are these equal ?  $\sum_{k=20}^{45} (k(k+4))$  and  $\sum_{k=50}^{75} ((k+30)(k-26))$