

Name : \_\_\_\_\_

## General Series

Sheet 1

Rewrite the following.

1)  $\sum_{k=1}^5 (k(k+2))$  ; starts at  $k = 7$

2)  $\sum_{n=13}^{20} (n-5)^2$  ; starts at  $n = 5$

3)  $\sum_{x=2}^7 \left(\frac{1}{x}\right)^x$  ; starts at  $a = 11$

# PREVIEW

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5)  $\sum_{c=30}^{38} (-10 - c^2)$

starts at  $m = 45$

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7) Are these equal?  $\sum_{z=3}^6 (2+z)$  and  $\sum_{z=10}^{13} (z-7)$

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1)  $\sum_{k=1}^5 (k(k+2))$  ; starts at  $k = 7$

2)  $\sum_{n=13}^{20} (n-5)^2$  ; starts at  $n = 5$

$$\sum_{k=7}^{11} ((k-6)(k-4))$$

$$\sum_{n=5}^{12} (n+3)^2$$

3)  $\sum_{x=2}^7 \left(\frac{1}{x}\right)^x$  ; starts at  $a = 11$

# PREVIEW

starts at  $a = 11$

$$\sum_{x=9}^{14} \left(\frac{1}{x}\right)^x$$

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$$-\frac{1}{7}(a+17)$$

5)  $\sum_{c=30}^{38} (-10 - c^2)$

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$m^2$  ; starts at  $m = 45$

$$\sum_{c=24}^{32} (-10 - c^2)$$

$$1^{m+5} \cdot (m+5)^2$$

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7) Are these equal ?  $\sum_{z=3}^6 (2+z)$  and  $\sum_{z=10}^{13} (z-7)$

No

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