Name : _____

Arithmetic Series

Determine the number of terms(n) in each arithmetic series.

1) $\displaystyle\sum_{m=1}^{n} (24m - 32) = 8208$

2) $\displaystyle\sum_{b=1}^{n} (20 + 5.2(b - 2)) = 448.8$

3) $\displaystyle\sum_{h=1}^{n} (3.5 + 9h$

$\left(\dfrac{1)}{} + 10\right) = -740$

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5) $\displaystyle\sum_{q=1}^{n} (-29q - 2$

$r) = 1015.3$

7) $\displaystyle\sum_{k=1}^{n} \left(\dfrac{3k}{2} - 4\right) = \dfrac{775}{2}$

8) $\displaystyle\sum_{p=1}^{n} (63(p + 3) - 12) = 38928$