

Name : _____

Arithmetic Series

T2S1

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

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

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

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

PREVIEW

$\frac{1}{2} + 10) = -740$

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

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$r) = 1015.3$

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

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

Arithmetic Series

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

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

$$n = 27$$

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

$$n = 11$$

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

PREVIEW

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$$n = 16$$

$$) + 10) = -740$$

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

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$$n = 22$$

$$r) = 1015.3$$

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

$$n = 25$$

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

$$n = 32$$