

Answer on Question #42756 – Math - Algebra

Identify the sum of the given sequence $1-2+3-4+\dots+2009-2010+2011-2012$
a -2000 b -1 c 1000 d -1600

Solution.

$$\begin{aligned}1 - 2 + 3 - 4 + \dots + 2009 - 2010 + 2011 - 2012 &= \\&= (1 - 2) + (3 - 4) + \dots + (2009 - 2010) + (2011 - 2012) = \\&= \underbrace{(-1) + (-1) + \dots + (-1) + (-1)}_{1006} = -1006\end{aligned}$$

Answer: -1006 .