

Re: a simple number theory problem

Source: <http://sci.tech-archive.net/Archive/sci.math/2004-06/5417.html>

From: flip (flip_alpha_at_safebunch.com)

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"Gerry Myerson" <gerry@maths.mq.edu.au> wrote in message
news:gerry-5D9394.13262824062004@sunb.ocs.mq.edu.au...

> *In article <1088041752.992986@news-1.nethere.net>,*

> *"flip" <flip_alpha@safebunch.com> wrote:*

>

>> *Here is another example with solution (WORK IT!!!*

>>

>> $3x - 2y + 4z = 34$

>>

>> *Solution:*

>> $x = 2 + 2m, y = m, z = 7 - m - 3n$, *m and n integers*

>

> *Must be a typo here somewhere, there's nothing to cancel that n.*

>

> --

> *Gerry Myerson (gerry@maths.mq.edu.au) (i -> u for email)*

Sorry, transcribing too quickly. Good catch!

Problem:

$$3x - 2y + 4z = 34$$

Solution:

$$x = 2 + 2m + 4n, y = m, z = 7 - m - 3n, \text{ where } m \text{ and } n \text{ integers}$$

Flip