# Math 105 TOPICS IN MATHEMATICS <br> REGULAR HOMEWORK - II 

January 28 (Wed), 2015
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* Due date: Monday, February 2nd, 2015.
* Your paper will be collected in class. No late homework will be accepted.

Please see "Rules, Policies and Protocols" p. 14 about homework policy.
$\star$ Show work or no credit, for [III] and for [IV].
[I] (6pts) Calculate: $\quad 3+65537-65537$.
[II] (6pts) Fill in the box:

$$
2 a+2 b+2 c+2 d=2(\square)
$$

[III] (6pts) Solve: $\quad x=135-2 x$.
[IV] (12pts) (a) $1+3+6+10+\cdots+300=$ ?

$1+2 \quad 1+2+3 \quad 1+2+3+4 \quad 1+2+3+4+\cdots+24$
1
$+1+2$
$+1+2+3$
$+1+2+3+4$
(b)
$+1+2+3+4+5$
: $\ddots$
$+1+2+3+4+5+\cdots+199$
$+1+2+3+4+5+\cdots+199+200=$ ?

