# Extra Problems. III. 

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## Pentagon

Can the intersection of a rectangular parallelepiped with a plane be an equilateral pentagon?

## Equation

Solve the equation $x^{\left(x^{n}\right)}=n$.

## Moscow Olympiad. 2011.

What's larger: $2011^{2011}+2009^{2009}$ or $2011^{2009}+2009^{2011} ?$

