

Exam 1, Spring 2009, Problem 2
Use the Intermediate Value Theorem to show that the function
$f(x)=x e^{x-1}-\frac{1}{2}$
has a zero in the interval $[0,1]$.
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Exam 1, Practice Fall 2009, Problem 5
Use the Intermediate Value Theorem in order to show that the equation $x^{5}-x+1=0$
has at least one real solution.
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Exam 1, Spring 2010, Problem 4
Use the Intermediate Value Theorem to show that the equation

$$
x^{4}=2^{x}
$$

has at least one solution.

