

**Problem Set 1      Foundations      Due 2/21/2005**

Each problem is worth 5 points. Clear and complete justification is required for full credit. You are welcome to discuss these problems with anyone and everyone, but must write up your own final submission without reference to any sources other than the textbook and instructor.

1. Prove that the product of any four consecutive integers is divisible by 24.
2. The solution  $x$  to any equation of the form  $ax + b = c$  is unique.

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