# Numbers in Other Bases

Modified version of problem provided by Mike Pinter, Belmont University

## Part 1

Consider numbers written in base $b$, where $2 \leq b \leq 9$. Clearly indicate how you can tell quickly whether a number in base $b$ is odd or even. Offer justification for your claim.

## Part 2

When given a number in base $b$ and base 10, indicate when you can determine if $b$ is odd or even and when you can not.