

**MTH 341 Advanced Calculus, Spring 2014, HW Questions A**

- (1) If  $r > 1$  show that  $r^n \rightarrow +\infty$  as  $n \rightarrow \infty$ .
- (2) If  $0 < r < 1$  show that  $r^n \rightarrow 0$  as  $n \rightarrow \infty$ .