

## 1 Series Notation 2

Write (a good guess for) the following series using sigma ( $\sum$ ) notation. (If you only know a few terms of a series, you don't know for sure how the series continues.)

(a)

$$1 - 2\theta^2 + 4\theta^4 - 8\theta^6 + \dots$$

(b)

$$\frac{1}{4} - \frac{1}{9} + \frac{1}{16} - \frac{1}{25} + \dots$$