Exercise 4

Find the closed form function for the following Taylor series:

$$f(x) = 1 - x + \frac{1}{2!}x^2 + \frac{1}{3!}x^3 + \frac{1}{4!}x^4 - \frac{1}{5!}x^5 - \frac{1}{6!}x^6 + \cdots$$

[TYPO: This should be a minus sign.]