Dawson College: Calculus 10: 201-BZF-05 S01

	September 2, 2011
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Quiz 1

Question 1. Determine if the sequence converges or diverges. If it converges find the limit.

(a)
$$(4 \text{ marks}) \{n^2 e^{-n}\}$$

$$(\mathbf{b}) - (4 \text{ marks}) \quad a_n = \frac{\cos^2 n}{2^n}$$

Question 2. (2 marks) Find a formula for the general term a_n of the sequence, assuming the pattern of the first few terms continues.

$$\left\{\frac{1}{2}, -\frac{4}{3}, \frac{9}{4}, -\frac{16}{5}, \frac{25}{6}, \dots\right\}$$