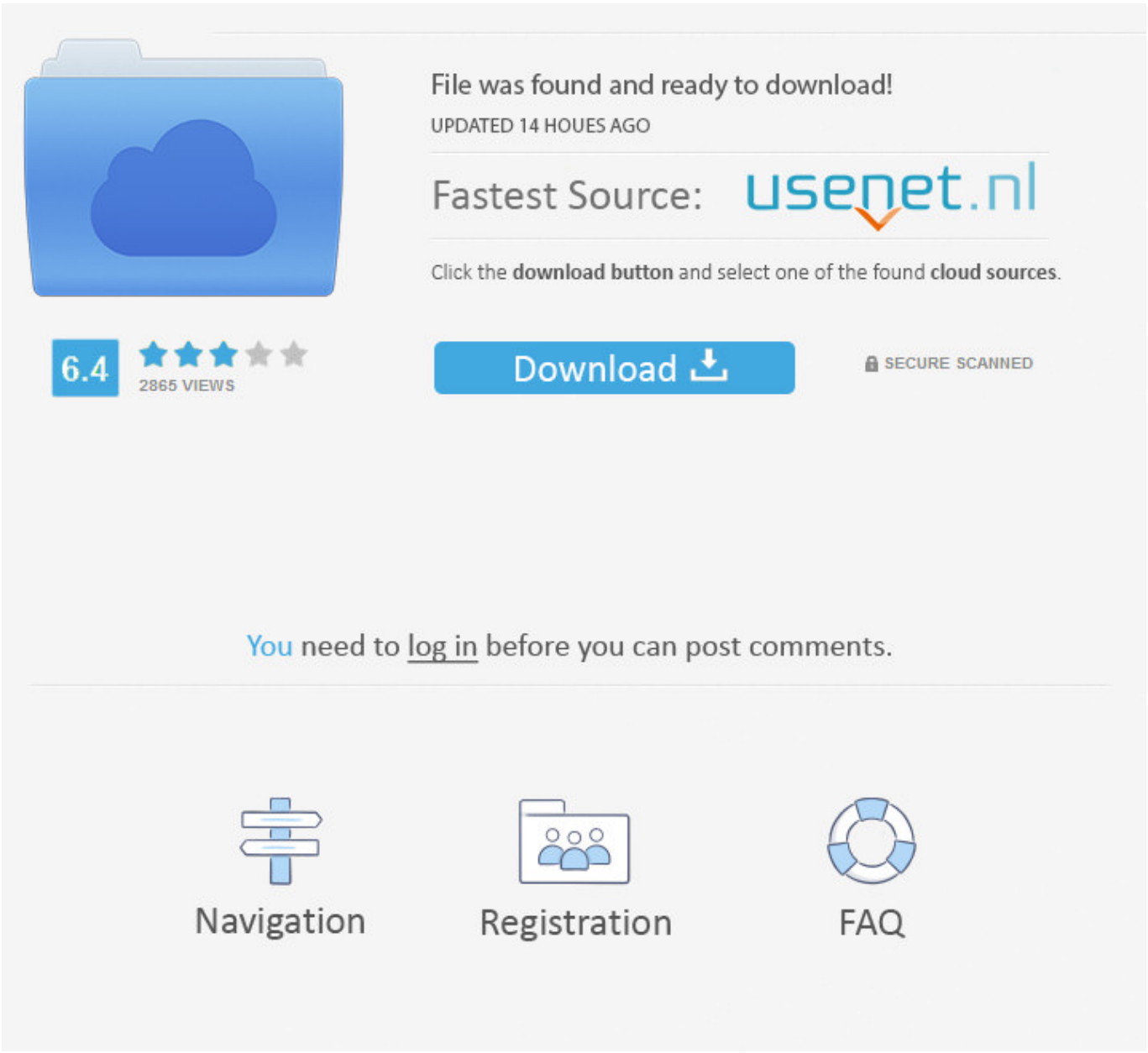

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The sum of the first n terms of a geometric sequence is given by

$$S_n = \frac{a_1(1-r^n)}{1-r}, \quad r \neq 1. \tag{1.181}$$

An *infinite geometric series* converges if and only if $|r| < 1$. Otherwise it diverges. The sum of infinite geometric series, for $|r| < 1$, is given by

$$\lim_{n\to\infty} S_n = \frac{a_1}{1-r}, \tag{1.182}$$

obtained from (1.181) by noting that

$$\lim_{n\to\infty} r^n = 0, \quad |r| < 1. \tag{1.183}$$

Some of the methods that will be used in this text may give the solutions in an infinite series. Some of the obtained series include infinite geometric series. For this reason we will study examples of infinite geometric series.

Example 1.30

Find the sum of the infinite geometric series

$$1 + \frac{2}{3} + \frac{4}{9} + \frac{8}{27} + \cdots \tag{1.184}$$

The first value of the sequence and the common ratio are given by $a_1 = 1$ and $r = \frac{2}{3}$ respectively. The sum is therefore given by

$$S = \frac{1}{1-\frac{2}{3}} = 3. \tag{1.185}$$

Example 1.31

Find the sum of the infinite geometric series:

$$e^{-1} + e^{-2} + e^{-3} + e^{-4} + \cdots \tag{1.186}$$

The first term and the common ratio are $a_1 = e^{-1}$ and $r = e^{-1} < 1$. The sum is therefore given by

$$S = \frac{e^{-1}}{1-e^{-1}} = \frac{1}{e-1}. \tag{1.187}$$

Example 1.32

Find the sum of the infinite geometric series:

$$x + \frac{n}{4}x + \frac{n^2}{16}x + \frac{n^3}{64}x + \cdots, \quad 0 < n < 4. \tag{1.188}$$

It is obvious that $a_1 = x$ and $r = \frac{n}{4} < 1$. Consequently, the sum of this infinite series is given by

$$S = \frac{x}{1-\frac{n}{4}} = \frac{4}{4-n}x, \quad 0 < n < 4. \tag{1.189}$$

Example 1.33

Find the sum of the infinite geometric series:

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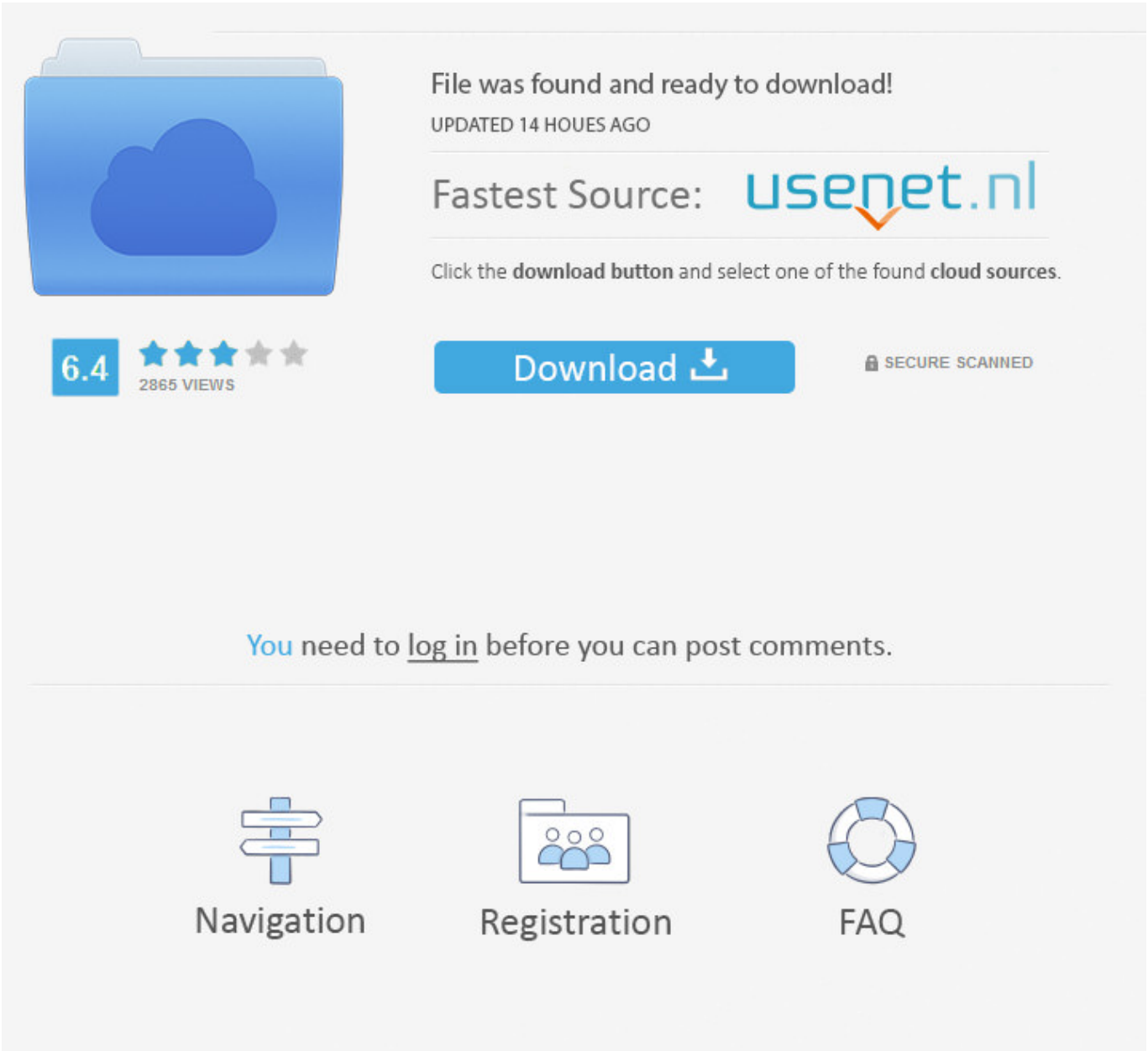

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