Find

$$\sum_{n=1}^{\infty} \frac{n^5}{1+4\sin(n)+n^7}$$

Solution

Unfortunately, we can't take this sum exactly. But we can use numerical applications. With function *NSum* of *Mathematica 9.0* we find that

$$\sum_{n=1}^{\infty} \frac{n^5}{1+4\sin(n)+n^7} = 0.822486.$$

Answer: 0.822486.

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