

$$\text{In[ ]:= } \left( \int_0^{2\pi} \int_0^\pi e^{i r Q \cos(\theta)} \sin(\theta) r^2 d\theta d\phi \right) / \int_0^{2\pi} \int_0^\pi \sin(\theta) r^2 d\theta d\phi$$

$$\text{Out[ ]:= } \frac{\text{Sin}[Q r]}{Q r}$$

which is multiplied by the form factor

$$\text{In[ ]:= } \text{expansion} = \text{Series}\left[\frac{\text{Sin}[x]}{x}, \{x, 0, 10\}\right]$$

$$\begin{aligned} \text{Out[ ]:= } & 1 - \frac{x^2}{6} + \left( \frac{1}{120} + \frac{1}{72} (-1 + ) \right) x^4 + \left( -\frac{1}{5040} - \frac{1}{720} (-1 + ) - \frac{(-2 + ) (-1 + )}{1296} \right) x^6 + \\ & \left( \frac{1}{362880} + \frac{41 (-1 + )}{604800} + \frac{(-2 + ) (-1 + )}{8640} + \frac{(-3 + ) (-2 + ) (-1 + )}{31104} \right) x^8 + \\ & \left( -\frac{23 (-1 + )}{39916800} - \frac{31 (-2 + ) (-1 + )}{10886400} - \frac{3628800}{3628800} - \right. \\ & \left. \frac{(-3 + ) (-2 + ) (-1 + )}{155520} - \frac{(-4 + ) (-3 + ) (-2 + ) (-1 + )}{933120} \right) x^{10} + O[x]^{11} \end{aligned}$$

# Mathematica Version 4

**Andrew Troeger, John Parker**



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[semivowel wikipedia](#) - Jan 28 2022

web in phonetics and phonology a semivowel glide or semiconsonant is a sound that is phonetically similar to a vowel sound but functions as the syllable boundary rather than as the nucleus of a syllable examples of semivowels in english are the consonants y and w in yes and west respectively

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