$$sin(z) = \frac{1}{2}z - \left(\pi - \frac{5}{2}\right)z^3 + \left(\frac{\pi - 3}{2}\right)z^5 \tag{1}$$

$$= \frac{1}{2}z(\pi - z^2((2\pi - 5) + z^2(\pi - 3))) \tag{2}$$

$$|sin(z)| = \frac{1}{2}z(\pi - z^2((2\pi - 5) + z^2(\pi - 3)))2^A \tag{3}$$

$$= z(\pi - z^2((2\pi - 5) + z^2(\pi - 3)))2^{A-1} \tag{4}$$

$$z = x \cdot 2^{-n} \tag{5}$$

$$|sin(x)| = x \cdot 2^{-n}(\pi - x^2 2^{-2n}((2\pi - 5) + x^2 2^{-2n}(\pi - 3)))2^{A-1} \tag{6}$$

$$= x(\pi - x^2 2^{-2n}((2\pi - 5) + x^2 2^{-2n}(\pi - 3)))2^{A-1-n} \tag{7}$$

$$= x(\pi \cdot 2^p - x^2 2^{p-2n}((2\pi - 5) + x^2 2^{-2n}(\pi - 3)))2^{A-1-n-p} \tag{8}$$

$$= x(\pi \cdot 2^p - x^2 2^{p-2n-q}((2\pi - 5)2^q + x^2 2^{q-2n}(\pi - 3)))2^{A-1-n-p} \tag{9}$$

$$= x(\pi \cdot 2^a - x^2 2^b((2\pi - 5)2^c + x^2 2^d(\pi - 3)))2^e \tag{10}$$

$$a = p \tag{11}$$

$$b = p - 2n - q \tag{12}$$

$$c = q \tag{13}$$

$$d = q - 2n \tag{14}$$

$$e = A - 1 - n - p \tag{15}$$