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Remarque sur le développement de la fonction $\arcsin x$. [Resume]

Časopis pro pěstování matematiky a fysiky, Vol. 64 (1935), No. 8, 312

Persistent URL: <http://dml.cz/dmlcz/121206>

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Remarque sur le développement de la fonction arc sin x .

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(Résumé de l'article imprimé à la page D 7—8.)

Soit

$$\beta_n = \frac{1 \cdot 3 \cdot 5 \dots (2n-1)}{2 \cdot 4 \cdot 6 \dots 2n} \cdot \frac{1}{2n+1}, \quad \alpha_n = \frac{(2n+1)^2}{(2n+2)(2n+3)};$$

alors, on a pour $|x| < 1$

$$\text{arc sin } x = x + \beta_1 x^3 + \beta_2 x^5 + \dots + \beta_{n-1} x^{2n-1} + \beta_n x^{2n+1} (1 - \Theta x^2)^{-1},$$

où $\alpha_n < \Theta < 1$.
