

# A expression for $\pi$

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Yuji Masuda

([y\\_masuda0208@yahoo.co.jp](mailto:y_masuda0208@yahoo.co.jp))

$$\sqrt{a} \sum_{x=1}^{\infty} \left( \frac{2}{\left(x - \frac{1}{2}\right)^2 + a} \right) = \pi$$

( $\because a > 0$ )