

All Out Primes

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$$P_{(n)} = \text{nth prime}$$



$$\lim_{n \rightarrow \infty} \left(n - \sqrt{n^2 - P_{(n)}} \right) = \lim_{n \rightarrow \infty} \left(\frac{1}{2} (\ln(P_{(n)}) - 1) \right)$$

$$(\because n \geq 4)$$