Formalizing Bombieri Vinogradov

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Theorem 1.

Proof. □

Theorem 2.

Proof. □

Theorem 3.

Proof. See p. 279. Uses combinatorics, an estimate on $\sum_{p \leq x} 1/\log p$ and partial summation. □

Theorem 4.

Proof. Apply $\mathrm{BV}_D eltaandabsorbtheerrorterms$ □