

On the Diophantine equation

ABSTRACT

This paper discusses an integral solution (a, b, c) of the Diophantine equations $x^{3n} + y^{3n} = 2z^{2n}$ for $n \times 2$ and it is found that the integral solution of these equation are of the form $a = b = t^2, c = t^3$ for any integers t .

Keyword: Diophantine equation; Integral solution