

Indeterminate Equation

# The Euclidean Method



Learn how to solve this *type* of problems, not just this problem.

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1. Find the number of ordered pairs of positive integer solutions  $(m, n)$  to the equation  $20m + 16n = 2016$ .
2. Of the pairs of positive integers  $(x, y)$  that satisfies  $3x + 7y = 188$ , which ordered pair has the least positive difference  $x - y$ ?

(Ref Ref 2009: 2009 BCML)