

```

In[6]:= (* Define the radical *)
Rad[n_] := Times @@ Cases[FactorInteger[n], {x_, _} → x];

(* Examples of  $c \geq \text{rad}(abc)^{1.4}$  *)
Do[Do[If[GCD[a, b, a + b] == 1 && a + b ≥ Rad[a * b * (a + b)]^(1.4),
  Print[a, ", ", b, ", ", a + b], Null], {b, a + 1, 100 000}], {a, 1, 2000}]

1,2400,2401
1,4374,4375
3,125,128
37,32768,32805
343,59049,59392

```