```
SquarefreePart[n_Integer?Positive] :=
 Times @@ Power @@@ ({#[[1]], Mod[#[[2]], 2]} & /@ FactorInteger[n])

For [n = 2, n < 20, n++,
 For[m = 1, m < n, m++,
  If[GCD[m, n] == 1, Print["(m,n) = (", m, ",", n, "), Pythagorean Triple = (", n^2 - m^2, ",",
    2 m * n, ",", n^2 + m^2, "), Congruent number = ", SquarefreePart[m * n * (n^2 - m^2)]]]]]]
```

(m,n) = (1,2), Pythagorean Triple = (3,4,5), Congruent number = 6

(m,n) = (1,3), Pythagorean Triple = (8,6,10), Congruent number = 6

(m,n) = (2,3), Pythagorean Triple = (5,12,13), Congruent number = 30

(m,n) = (1,4), Pythagorean Triple = (15,8,17), Congruent number = 15

(m,n) = (3,4), Pythagorean Triple = (7,24,25), Congruent number = 21

(m,n) = (1,5), Pythagorean Triple = (24,10,26), Congruent number = 30

(m,n) = (2,5), Pythagorean Triple = (21,20,29), Congruent number = 210

(m,n) = (3,5), Pythagorean Triple = (16,30,34), Congruent number = 15

(m,n) = (4,5), Pythagorean Triple = (9,40,41), Congruent number = 5

(m,n) = (1,6), Pythagorean Triple = (35,12,37), Congruent number = 210

(m,n) = (5,6), Pythagorean Triple = (11,60,61), Congruent number = 330

(m,n) = (1,7), Pythagorean Triple = (48,14,50), Congruent number = 21

(m,n) = (2,7), Pythagorean Triple = (45,28,53), Congruent number = 70

(m,n) = (3,7), Pythagorean Triple = (40,42,58), Congruent number = 210

(m,n) = (4,7), Pythagorean Triple = (33,56,65), Congruent number = 231

(m,n) = (5,7), Pythagorean Triple = (24,70,74), Congruent number = 210

(m,n) = (6,7), Pythagorean Triple = (13,84,85), Congruent number = 546

(m,n) = (1,8), Pythagorean Triple = (63,16,65), Congruent number = 14

(m,n) = (3,8), Pythagorean Triple = (55,48,73), Congruent number = 330

(m,n) = (5,8), Pythagorean Triple = (39,80,89), Congruent number = 390

(m,n) = (7,8), Pythagorean Triple = (15,112,113), Congruent number = 210

(m,n) = (1,9), Pythagorean Triple = (80,18,82), Congruent number = 5

(m,n) = (2,9), Pythagorean Triple = (77,36,85), Congruent number = 154

(m,n) = (4,9), Pythagorean Triple = (65,72,97), Congruent number = 65

(m,n) = (5,9), Pythagorean Triple = (56,90,106), Congruent number = 70

(m,n) = (7,9), Pythagorean Triple = (32,126,130), Congruent number = 14

(m,n) = (8,9), Pythagorean Triple = (17,144,145), Congruent number = 34

(m,n) = (1,10), Pythagorean Triple = (99,20,101), Congruent number = 110

(m,n) = (3,10), Pythagorean Triple = (91,60,109), Congruent number = 2730

(m,n) = (7,10), Pythagorean Triple = (51,140,149), Congruent number = 3570

(m,n) = (9,10), Pythagorean Triple = (19,180,181), Congruent number = 190
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(m,n) = (1,11), Pythagorean Triple = (120,22,122), Congruent number = 330

(m,n) = (2,11), Pythagorean Triple = (117,44,125), Congruent number = 286

(m,n) = (3,11), Pythagorean Triple = (112,66,130), Congruent number = 231

(m,n) = (4,11), Pythagorean Triple = (105,88,137), Congruent number = 1155

(m,n) = (5,11), Pythagorean Triple = (96,110,146), Congruent number = 330

(m,n) = (6,11), Pythagorean Triple = (85,132,157), Congruent number = 5610

(m,n) = (7,11), Pythagorean Triple = (72,154,170), Congruent number = 154

(m,n) = (8,11), Pythagorean Triple = (57,176,185), Congruent number = 1254

(m,n) = (9,11), Pythagorean Triple = (40,198,202), Congruent number = 110

(m,n) = (10,11), Pythagorean Triple = (21,220,221), Congruent number = 2310

(m,n) = (1,12), Pythagorean Triple = (143,24,145), Congruent number = 429

(m,n) = (5,12), Pythagorean Triple = (119,120,169), Congruent number = 1785

(m,n) = (7,12), Pythagorean Triple = (95,168,193), Congruent number = 1995

(m,n) = (11,12), Pythagorean Triple = (23,264,265), Congruent number = 759

(m,n) = (1,13), Pythagorean Triple = (168,26,170), Congruent number = 546

(m,n) = (2,13), Pythagorean Triple = (165,52,173), Congruent number = 4290

(m,n) = (3,13), Pythagorean Triple = (160,78,178), Congruent number = 390

(m,n) = (4,13), Pythagorean Triple = (153,104,185), Congruent number = 221

(m,n) = (5,13), Pythagorean Triple = (144,130,194), Congruent number = 65

(m,n) = (6,13), Pythagorean Triple = (133,156,205), Congruent number = 10 374

(m,n) = (7,13), Pythagorean Triple = (120,182,218), Congruent number = 2730

(m,n) = (8,13), Pythagorean Triple = (105,208,233), Congruent number = 2730

(m,n) = (9,13), Pythagorean Triple = (88,234,250), Congruent number = 286

(m,n) = (10,13), Pythagorean Triple = (69,260,269), Congruent number = 8970

(m,n) = (11,13), Pythagorean Triple = (48,286,290), Congruent number = 429

(m,n) = (12,13), Pythagorean Triple = (25,312,313), Congruent number = 39

(m,n) = (1,14), Pythagorean Triple = (195,28,197), Congruent number = 2730

(m,n) = (3,14), Pythagorean Triple = (187,84,205), Congruent number = 7854

(m,n) = (5,14), Pythagorean Triple = (171,140,221), Congruent number = 1330

(m,n) = (9,14), Pythagorean Triple = (115,252,277), Congruent number = 1610

(m,n) = (11,14), Pythagorean Triple = (75,308,317), Congruent number = 462

(m,n) = (13,14), Pythagorean Triple = (27,364,365), Congruent number = 546

(m,n) = (1,15), Pythagorean Triple = (224,30,226), Congruent number = 210

(m,n) = (2,15), Pythagorean Triple = (221,60,229), Congruent number = 6630

(m,n) = (4,15), Pythagorean Triple = (209,120,241), Congruent number = 3135
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(m,n) = (7,15), Pythagorean Triple = (176,210,274), Congruent number = 1155

(m,n) = (8,15), Pythagorean Triple = (161,240,289), Congruent number = 4830

(m,n) = (11,15), Pythagorean Triple = (104,330,346), Congruent number = 4290

(m,n) = (13,15), Pythagorean Triple = (56,390,394), Congruent number = 2730

(m,n) = (14,15), Pythagorean Triple = (29,420,421), Congruent number = 6090

(m,n) = (1,16), Pythagorean Triple = (255,32,257), Congruent number = 255

(m,n) = (3,16), Pythagorean Triple = (247,96,265), Congruent number = 741

(m,n) = (5,16), Pythagorean Triple = (231,160,281), Congruent number = 1155

(m,n) = (7,16), Pythagorean Triple = (207,224,305), Congruent number = 161

(m,n) = (9,16), Pythagorean Triple = (175,288,337), Congruent number = 7

(m,n) = (11,16), Pythagorean Triple = (135,352,377), Congruent number = 165

(m,n) = (13,16), Pythagorean Triple = (87,416,425), Congruent number = 1131

(m,n) = (15,16), Pythagorean Triple = (31,480,481), Congruent number = 465

(m,n) = (1,17), Pythagorean Triple = (288,34,290), Congruent number = 34

(m,n) = (2,17), Pythagorean Triple = (285,68,293), Congruent number = 9690

(m,n) = (3,17), Pythagorean Triple = (280,102,298), Congruent number = 3570

(m,n) = (4,17), Pythagorean Triple = (273,136,305), Congruent number = 4641

(m,n) = (5,17), Pythagorean Triple = (264,170,314), Congruent number = 5610

(m,n) = (6,17), Pythagorean Triple = (253,204,325), Congruent number = 25 806

(m,n) = (7,17), Pythagorean Triple = (240,238,338), Congruent number = 1785

(m,n) = (8,17), Pythagorean Triple = (225,272,353), Congruent number = 34

(m,n) = (9,17), Pythagorean Triple = (208,306,370), Congruent number = 221

(m,n) = (10,17), Pythagorean Triple = (189,340,389), Congruent number = 3570

(m,n) = (11,17), Pythagorean Triple = (168,374,410), Congruent number = 7854

(m,n) = (12,17), Pythagorean Triple = (145,408,433), Congruent number = 7395

(m,n) = (13,17), Pythagorean Triple = (120,442,458), Congruent number = 6630

(m,n) = (14,17), Pythagorean Triple = (93,476,485), Congruent number = 22 134

(m,n) = (15,17), Pythagorean Triple = (64,510,514), Congruent number = 255

(m,n) = (16,17), Pythagorean Triple = (33,544,545), Congruent number = 561

(m,n) = (1,18), Pythagorean Triple = (323,36,325), Congruent number = 646

(m,n) = (5,18), Pythagorean Triple = (299,180,349), Congruent number = 2990

(m,n) = (7,18), Pythagorean Triple = (275,252,373), Congruent number = 154

(m,n) = (11,18), Pythagorean Triple = (203,396,445), Congruent number = 4466

(m,n) = (13,18), Pythagorean Triple = (155,468,493), Congruent number = 4030

(m,n) = (17,18), Pythagorean Triple = (35,612,613), Congruent number = 1190

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(m,n) = (1,19), Pythagorean Triple = (360,38,362), Congruent number = 190

(m,n) = (2,19), Pythagorean Triple = (357,76,365), Congruent number = 13 566

(m,n) = (3,19), Pythagorean Triple = (352,114,370), Congruent number = 1254

(m,n) = (4,19), Pythagorean Triple = (345,152,377), Congruent number = 6555

(m,n) = (5,19), Pythagorean Triple = (336,190,386), Congruent number = 1995

(m,n) = (6,19), Pythagorean Triple = (325,228,397), Congruent number = 1482

(m,n) = (7,19), Pythagorean Triple = (312,266,410), Congruent number = 10 374

(m,n) = (8,19), Pythagorean Triple = (297,304,425), Congruent number = 1254

(m,n) = (9,19), Pythagorean Triple = (280,342,442), Congruent number = 1330

(m,n) = (10,19), Pythagorean Triple = (261,380,461), Congruent number = 5510

(m,n) = (11,19), Pythagorean Triple = (240,418,482), Congruent number = 3135

(m,n) = (12,19), Pythagorean Triple = (217,456,505), Congruent number = 12 369

(m,n) = (13,19), Pythagorean Triple = (192,494,530), Congruent number = 741

(m,n) = (14,19), Pythagorean Triple = (165,532,557), Congruent number = 43 890

(m,n) = (15,19), Pythagorean Triple = (136,570,586), Congruent number = 9690

(m,n) = (16,19), Pythagorean Triple = (105,608,617), Congruent number = 1995

(m,n) = (17,19), Pythagorean Triple = (72,646,650), Congruent number = 646

(m,n) = (18,19), Pythagorean Triple = (37,684,685), Congruent number = 1406
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