

Find all solutions (if there are any) to each of the following linear diophantine equations.

1.  $1221x + 5476y = 482$
2.  $13818x + 15040y = 12690$
3.  $1898x + 1859y = 404$
4.  $1166x + 352y = 2948$
5.  $2040x + 2368y = 1304$
6.  $1944x + 1000y = 680$
7.  $4964x + 2652y = 3741$
8.  $102x + 670y = 202$
9.  $4797x + 10179y = 5616$
10.  $11480x + 7252y = 5376$
11.  $4838x + 4797y = 943$
12.  $2086x + 854y = 2730$
13.  $4069x + 5720y = 910$
14.  $2872x + 2976y = 1112$
15.  $1590x + 1980y = 5250$
16.  $6493x + 18834y = 258$
17.  $1974x + 3619y = 2304$
18.  $2023x + 245y = 798$
19.  $464x + 1352y = 1337$
20.  $6630x + 6528y = 10302$
21.  $170x + 55y = 46$
22.  $8364x + 15776y = 8568$
23.  $2262x + 845y = 1106$
24.  $1183x + 175y = 714$
25.  $154x + 231y = 11165$
26.  $551x + 3344y = 1559$
27.  $2610x + 2415y = 2566$
28.  $1960x + 4960y = 7120$
29.  $1776x + 7067y = 3220$
30.  $5580x + 13320y = 34020$
31.  $2005x + 2330y = 540$
32.  $1300x + 3978y = 287$
33.  $1650x + 6325y = 1925$
34.  $1380x + 3220y = 54281$
35.  $4459x + 13916y = 2695$
36.  $1184x + 2208y = 1697$
37.  $6790x + 6216y = 406$
38.  $3030x + 1020y = 1321$
39.  $11187x + 429y = 4719$
40.  $990x + 750y = 1710$
41.  $138x + 392y = 45$
42.  $7101x + 4266y = 4293$
43.  $8294x + 10032y = 1342$
44.  $4165x + 6335y = 1891$
45.  $1104x + 2622y = 5796$
46.  $160x + 19160y = 480$
47.  $4356x + 5112y = 6985$
48.  $16512x + 10148y = 29928$
49.  $2268x + 28y = 1093$
50.  $799x + 5984y = 1632$
51.  $7216x + 6204y = 925$
52.  $544x + 576y = 33$
53.  $6806x + 8774y = 1230$
54.  $4480x + 5500y = 3300$
55.  $482x + 956y = 170$
56.  $16268x + 1960y = 3528$
57.  $6880x + 9056y = 640$
58.  $722x + 4313y = 874$
59.  $4532x + 1683y = 1947$
60.  $984x + 3157y = 6766$
61.  $5652x + 2616y = 1680$
62.  $8722x + 1568y = 9115$
63.  $9760x + 6980y = 3800$
64.  $9408x + 714y = 5208$
65.  $9016x + 10787y = 22701$
66.  $3204x + 6480y = 5689$
67.  $145x + 1470y = 545$
68.  $10276x + 3416y = 2324$
69.  $2508x + 5304y = 1608$
70.  $2016x + 1464y = 3672$
71.  $1743x + 2856y = 2541$
72.  $8325x + 8950y = 75$
73.  $564x + 372y = 37$
74.  $7252x + 10286y = 14134$
75.  $4070x + 682y = 661$