

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. $4070x + 682y = 661$