

SIMULTANEOUS EQUATIONS

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|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| 1) $3x + 2y = 22$
$4x - 2y = 6$ | 2) $5x - 3y = 19$
$3x + 3y = -3$ | 3) $4x + 3y = 26$
$2x + 3y = 16$ | 4) $3x + 2y = 5$
$-5x - 2y = 1$ |
| 5) $4x + 2y = 28$
$-3x + 2y = 7$ | 6) $6x + 5y = 18$
$8x + 5y = 19$ | 7) $x - 4y = 22$
$3x + 4y = 10$ | 8) $2x + 6y = -7$
$-3x - 6y = 3$ |
| 9) $2x + y = 12$
$3x - 4y = 7$ | 10) $3x - y = -9$
$2x + 5y = 11$ | 11) $2x + y = 7$
$3x + 2y = 11$ | 12) $5x + 6y = 9$
$4x - 2y = 14$ |
| 13) $4x - y = 5$
$3x + 4y = 37$ | 14) $2x + 8y = 10$
$3x + 2y = -5$ | 15) $5x - 2y = 1$
$2x + 3y = 27$ | 16) $3x - 4y = 10$
$4x + 6y = 36$ |
| 17) $5x + 3y = 11$
$2x - 5y = 23$ | 18) $4x - 3y = 12$
$2x + 2y = 13$ | 19) $2x + 5y = 1$
$4x + 3y = 9$ | 20) $5x + 3y = 11$
$4x + 7y = 18$ |
| 21) $3x - 2y = 2$
$2x + 5y = 14$ | 22) $5x + 2y = 4$
$4x + 3y = -1$ | 23) $3x + 8y = 3$
$2x - 6y = -15$ | 24) $4x + 6y = 6$
$2x + 9y = -5$ |

Answers (don't look until you have done the question)!

- 1) $x = 4, y = 7$
- 2) $x = 2, y = -3$
- 3) $x = 5, y = 2$
- 4) $x = -3, y = 7$
- 5) $x = 3, y = 8$
- 6) $x = 0.5, y = 5$
- 7) $x = 8, y = -3.5$
- 8) $x = 4, y = -2.5$
- 9) $x = 5, y = 2$
- 10) $x = -2, y = 3$
- 11) $x = 3, y = 1$
- 12) $x = 3, y = -1$
- 13) $x = 3, y = 7$
- 14) $x = -3, y = 2$
- 15) $x = 3, y = 7$
- 16) $x = 6, y = 2$
- 17) $x = 4, y = -3$
- 18) $x = 4.5, y = 2$
- 19) $x = 3, y = -1$
- 20) $x = 1, y = 2$
- 21) $x = 2, y = 2$
- 22) $x = 2, y = -3$
- 23) $x = -3, y = 1.5$
- 24) $x = 3.5, y = -1\frac{1}{3}$