Crack the Code — Simultaneous Equations

A	Solve $3x - 2y = 34$ $5x + 3y = 44$ $x = 10, y = -2$	**B**	Solve $2x = 3y - 5.5$ $6y = 5x + 2.5$ $x = 8.5, y = 7.5$
C	Solve $\frac{x}{4} + 6 = 3x + y + 2$ $2y = 3(6 - x)$ $x = -4, y = 15$	**D**	Solve $2x + y = 22$ $3xy = 180$ $x = 6, y = 10$ or $x = 5, y = 12$
E	Solve $x^2 + y^2 = 20$ $2y = x$ $x = 4, y = 2$ or $x = -4, y = -2$	**F**	Solve $x + y = 10$ $3y^2 - 2xy = 25$ $x = 5, y = 5$ or $x = 11, y = -1$
G	Solve $x^2 - xy + y^2 = 49$ $2y = x + 7$ $x = 7, y = 7$ or $x = -7, y = 0$	**H**	The solution to the equations $ax + 5y = 17$ $3x - 4y = b$ is $x = 2a, y = -3$ Find the positive values of a and b $a = 4, b = 36$
I	Determine the number of points of intersection of the line $y = 3 - 2x$ and the curve $y = 3x^2 + 5x - 8$ 2	**J**	The line $3y = kx + 17$ meets the curve $x^2 + 2y^2 = 34$ at exactly one point. Find the positive value of k. 2

To get the three-digit code, add together all your answers. 139