Mathematics

Comparing algebraic and graphical methods for solving simultaneous equations

Independent Task

Ms Jones



Try this

Solve the following simultaneous equations using an algebraic method.

$$y - x = -5$$

$$2x + 3y = 5$$



Independent task

Solve the following simultaneous equations algebraically and graphically:

1.
$$y = 4x - 1$$
 and $y = -x + 4$

2.
$$x + y = 10$$
 and $y = 5x - 2$

3.
$$y - 2x = 1$$
 and $y + 4x = 5$

4. Why do y = -4x + 5 and y + 4x = 12 have no solution when solved simultaneously?



Explore

What could the coefficients of x and y be in each equation to make the point of intersection (3,-2)?

$$\int x + \int y = 3$$

