

Questions - Solving Simultaneous Equations Graphically

- 1 Solve these pairs of simultaneous equations graphically.
 - a $y = 3x - 1$ and $y = x + 3$
 - b $y = x - 5$ and $y = 7 - 5x$
 - c $y = 3x + 4$ and $y = 2 - x$
- 2 Solve these pairs of simultaneous equations graphically.
 - a $x + y = 0$ and $y = 2x + 6$
 - b $4x + 2y = 3$ and $y = 3x - 1$
 - c $2x + y + 4 = 0$ and $2y = 3x - 1$
- 3 Solve these pairs of simultaneous equations graphically.
 - a $y = x - 1$ and $y = x^2 - 4x + 3$
 - b $y = 1 - 3x$ and $y = x^2 - 3x - 3$
 - c $y = 3 - x$ and $y = x^2 + 2x + 5$
- 4 Solve the simultaneous equations $x + y = 1$ and $x^2 + y^2 = 25$ graphically.

Extend

- 5
 - a Solve the simultaneous equations $2x + y = 3$ and $x^2 + y = 4$
 - i graphically
 - ii algebraically to 2 decimal places.
 - b Which method gives the more accurate solutions? Explain your answer.