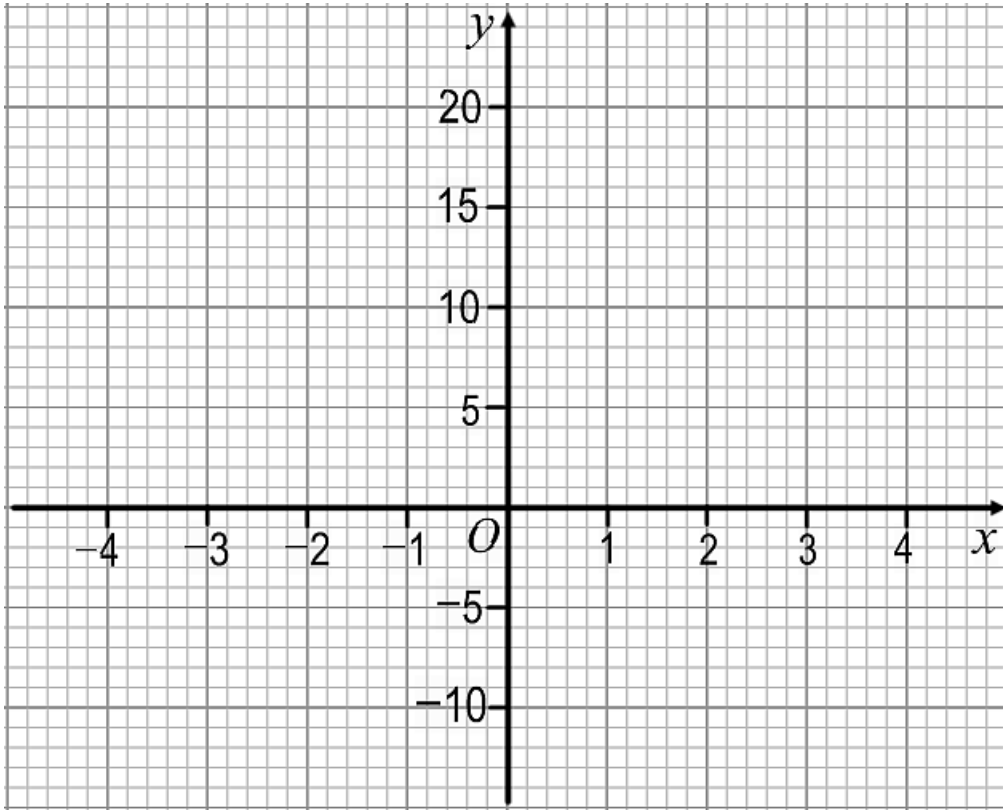## Solving simultaneous equations graphically when one is linear the other is quadratic
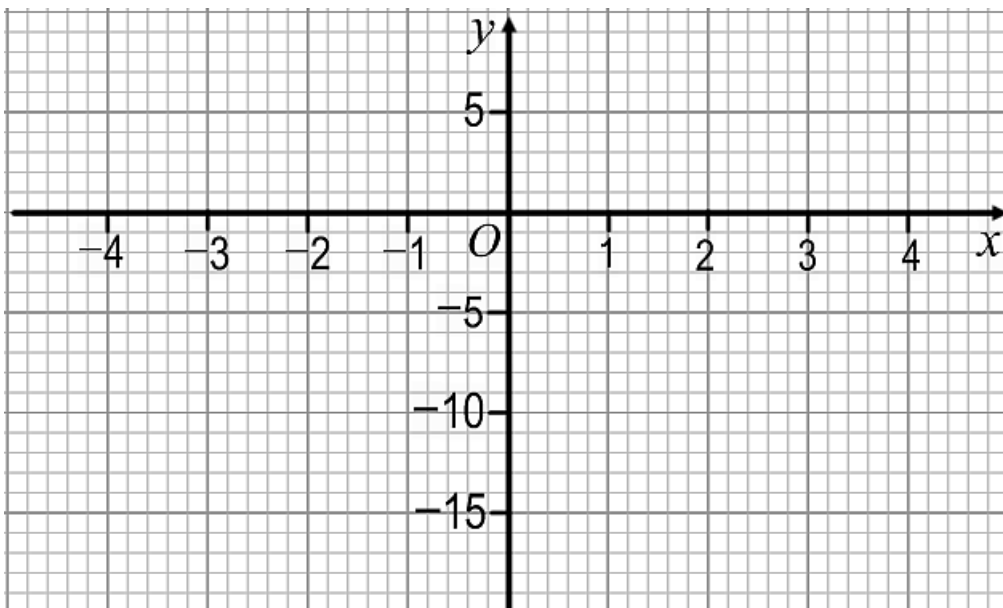
A 1. Solve these simultaneous equations graphically.

Use values of x from -4 to 4.
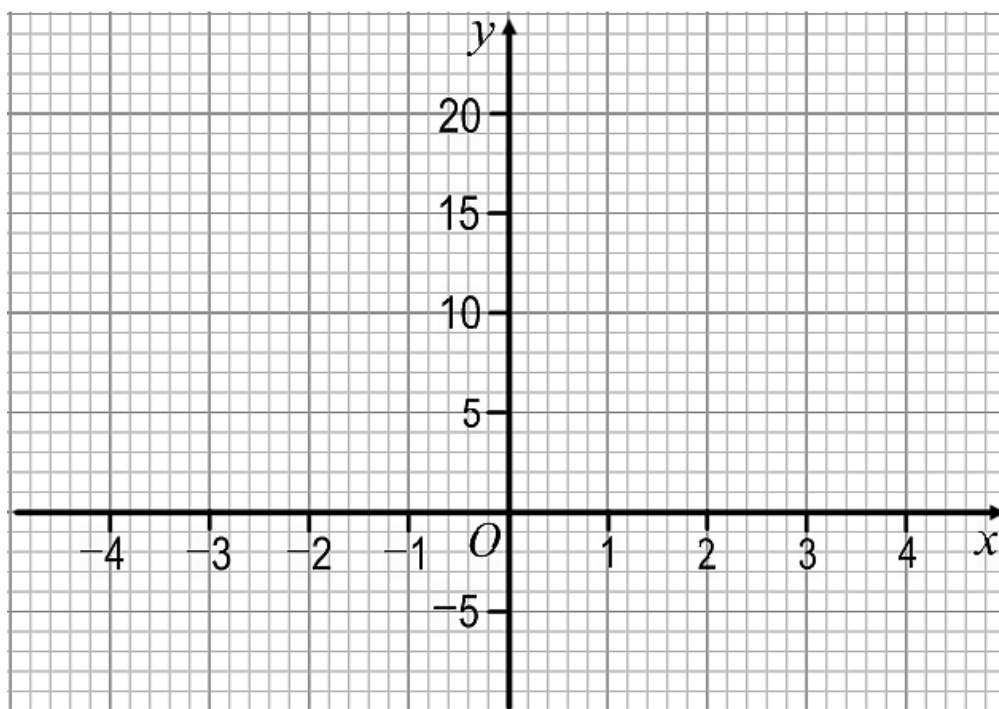
a) $y = x^2$

$y = 4x - 3$

b) $y = 2 - x^2$

$y = x$

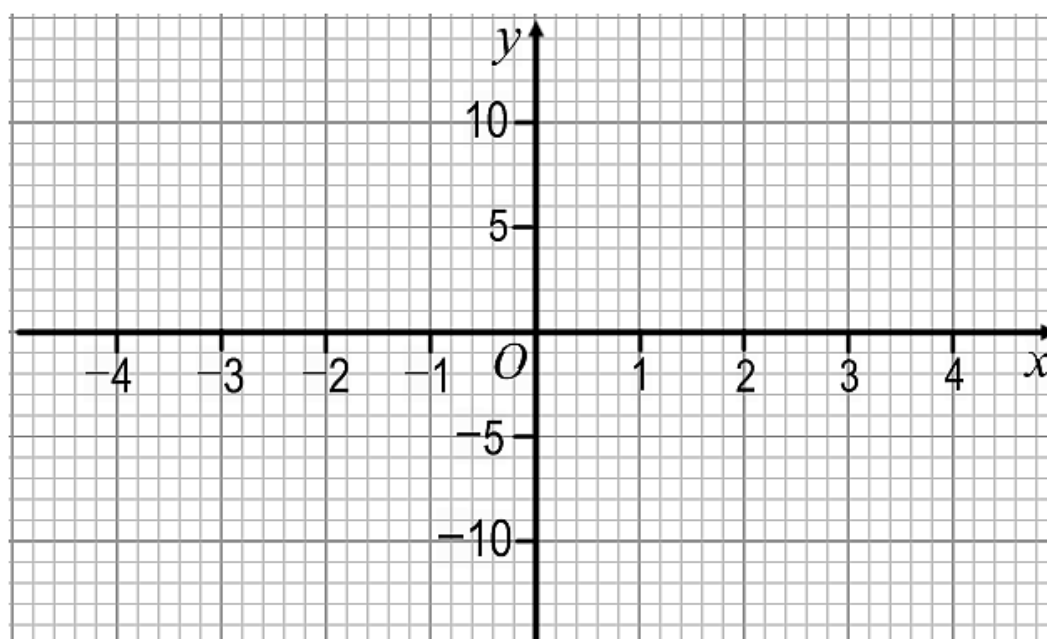## Solving simultaneous equations graphically when one is linear the other is quadratic
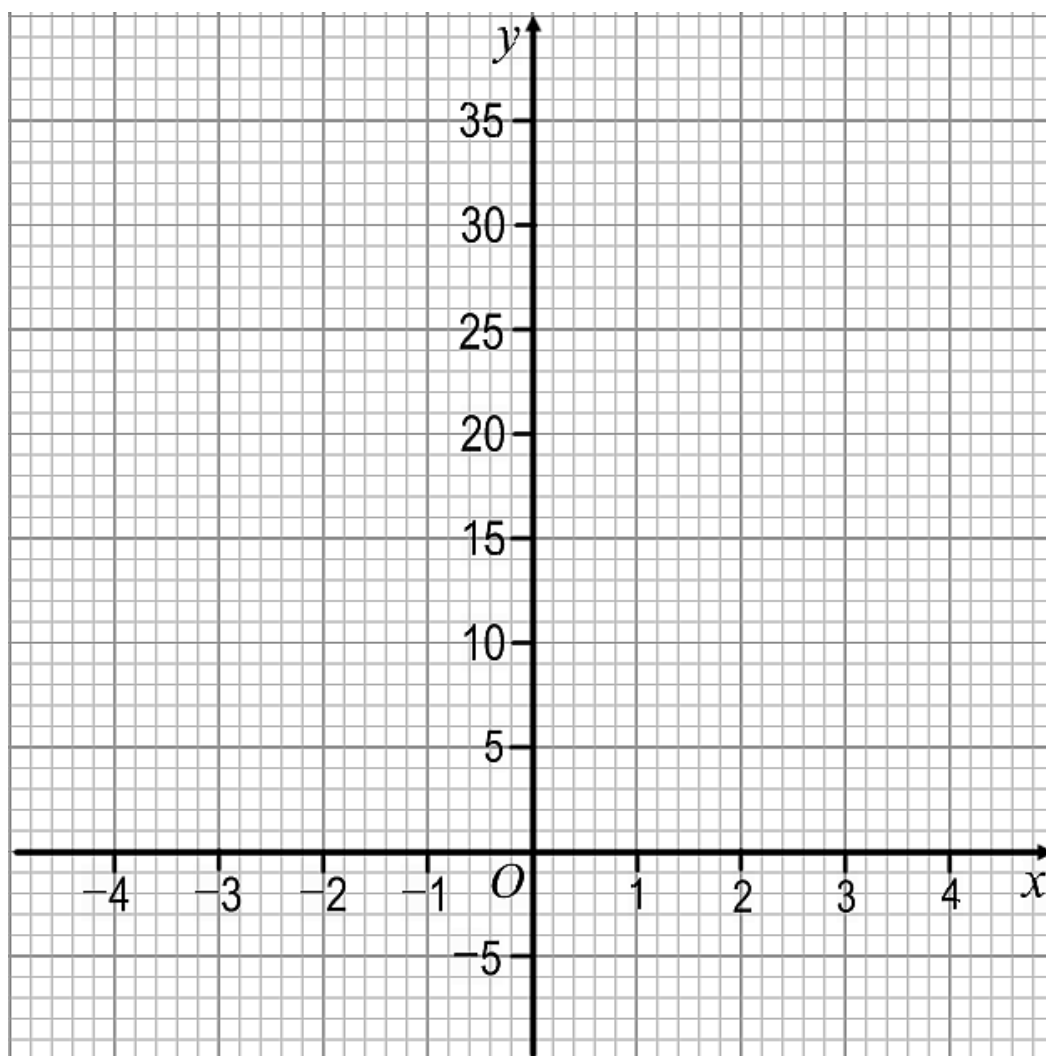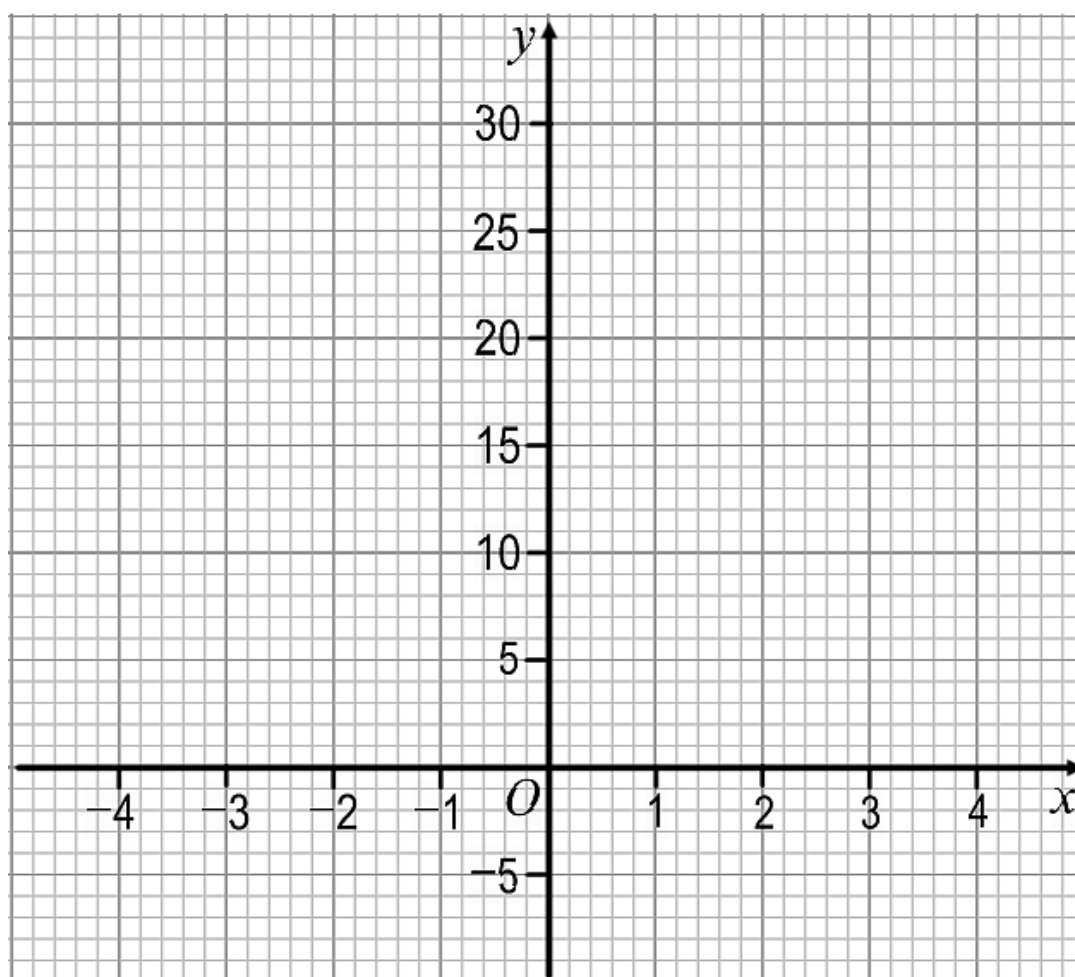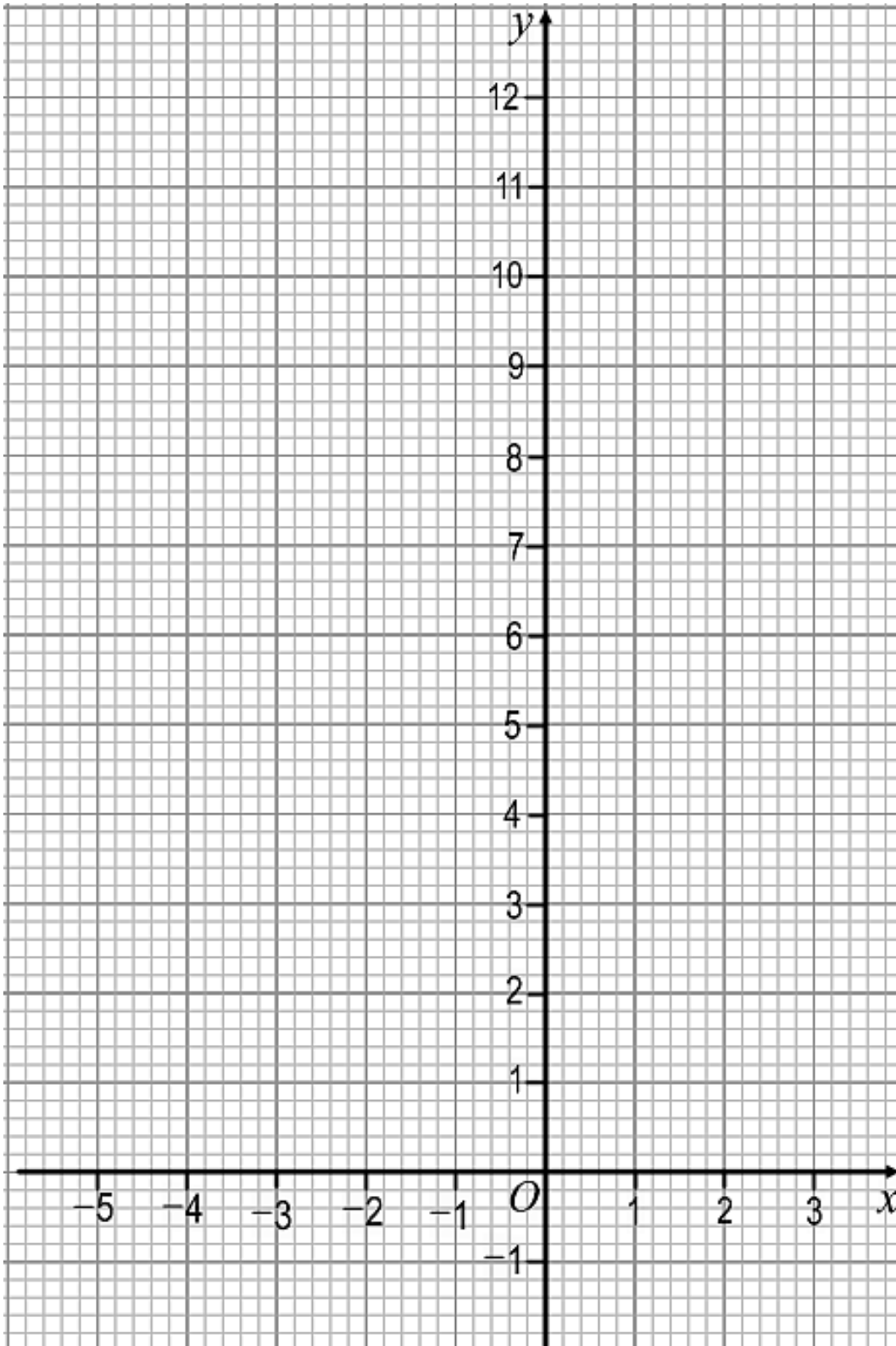
c) $y = x^2 + 2$

$x + y = 8$

d) $y = 9 - x^2$

$2x + y = 6$

e) $y = x^2 + 4x + 1$

$y = x - 1$

f) $y = x^2 - 2x + 1$

$x + y = 3$

A 2. Solve graphically the simultaneous equations $y = x^2 + 3x + 1$ and $y = 2x + 5$.
Give your solutions correct to 1 decimal place.

A 3. Solve graphically the simultaneous equations $4y = 6x^2 - 2$ and $y = 2x + 1$.
Give your solutions correct to 1 decimal place.