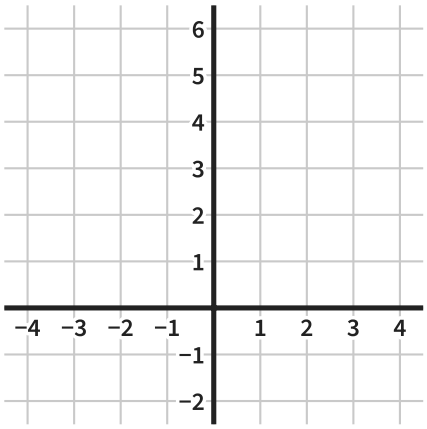
Simultaneous equations: linear and quadratic *lesson handout*

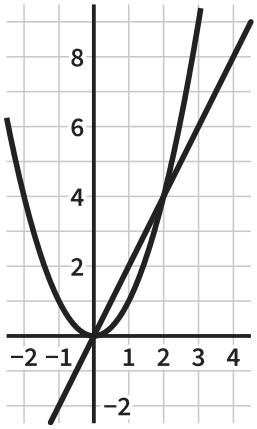
Turn and talk

Sketch a straight line and a U shaped curve.
How many times can they cross?



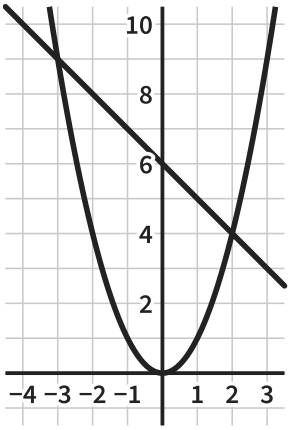
We do

Where do the graphs of $y = x^2$ and $y = 2x$ meet?



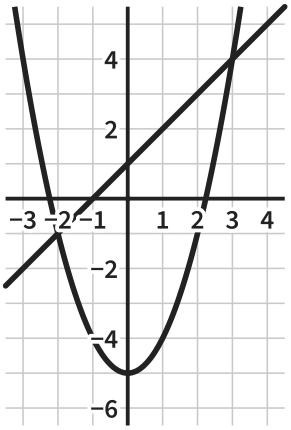
You do

Where do the graphs of $y = x^2$ and $y = 6 - x$ meet?



You do

Where do the graphs of $y = x^2 - 5$ and $y = x + 1$ meet?



Part 2

We do: $y = x^2$ and $y = 4x - 3$. You do: $y = x^2$ and $y = 2x + 24$, then $y = x^2$ and $y = 8 - 2x$.

Part 3

We do: $y = x^2 + 1$ and $y = 3x + 5$. You do: $y = x^2$ and $y = 7x - 10$, then $y = x^2 - 2$ and $y = 2x + 1$.