

**STEP Exercises: Curve sketching** (1 page; 19/9/18)

(1) Sketch the graph of  $\sqrt{x^2 - 2x + 1}$  for  $0 \leq x \leq 2$

(2) Sketch the curve  $x^2 = y(1 - y)$

[Hint: Rearrange]

(3) Sketch  $x^n \pm y^n = 1$  for large  $n$