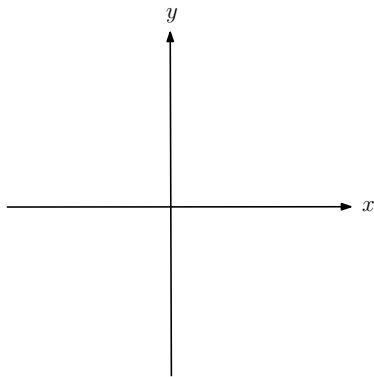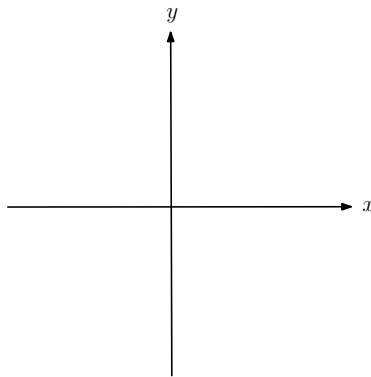# Cubics

Sketch the following graphs, labelling the coordinates of intersections with any axes:
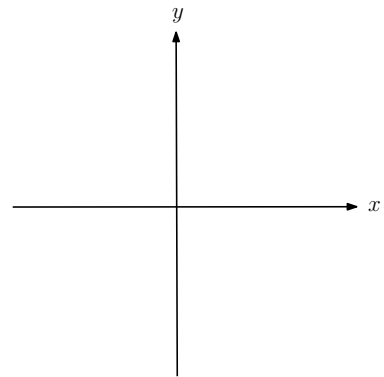
$f(x) = (x+2)(x-1)(x-3)$

$f(x) = (x-4)(x+5)^2$

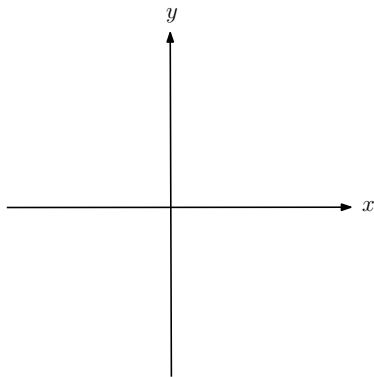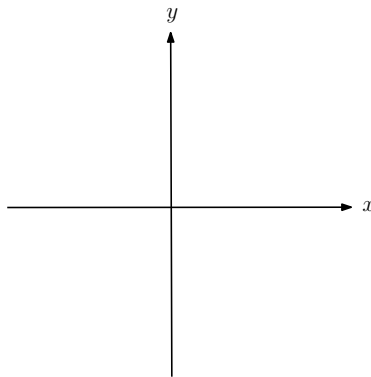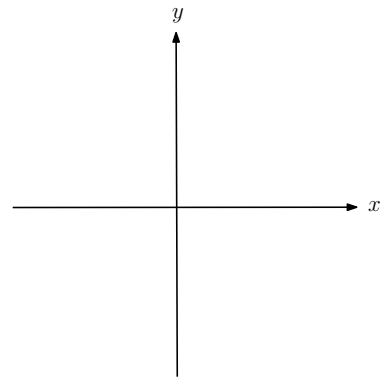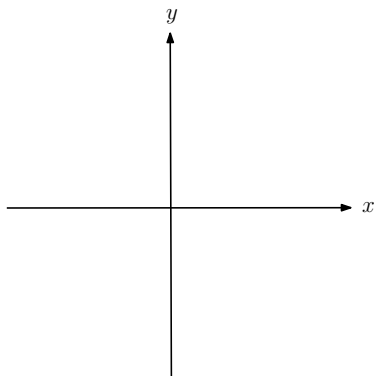$f(x) = x(2x+1)(x-1)$

$f(x) = (3x-1)(x+2)(1-x)$

$f(x) = -x^3$
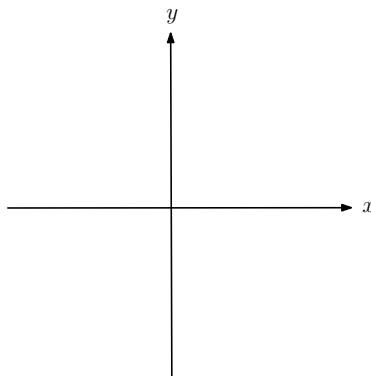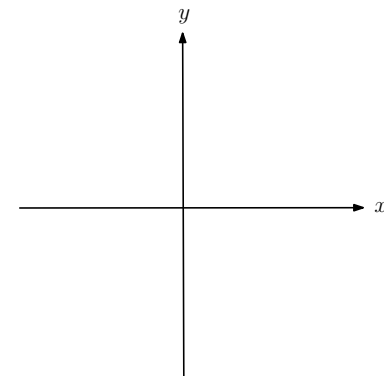
$f(x) = x^2(5-x)$

$f(x) = (2-x)(3-x)(4-x)$

$f(x) = (2-x)^2(x-6)$

$f(x) = (x+1)(x-k)^2, \quad k > 0$

Solutions

Sketch the following graphs, labelling the coordinates of intersections with any axes:

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