

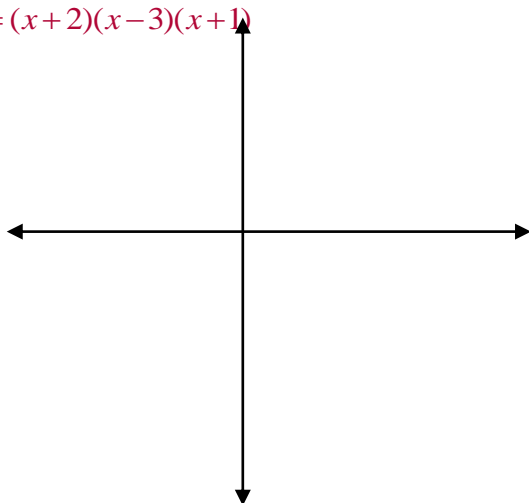
Student Activity 7d

Working in pairs, **sketch** the following graphs on the axes below.

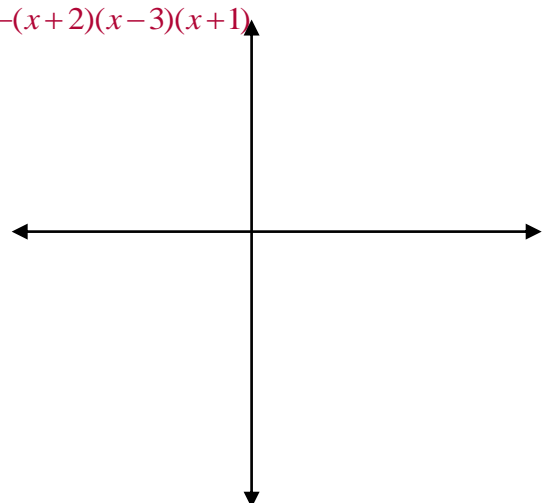
Note particularly the intercepts and whether or not the vertex of the graph is a local maximum or local minimum.

Verify that you are correct by using a graphing calculator or graphing software such as GeoGebra if you have access to these. Alternatively use the “Table” mode on your calculator to verify points.

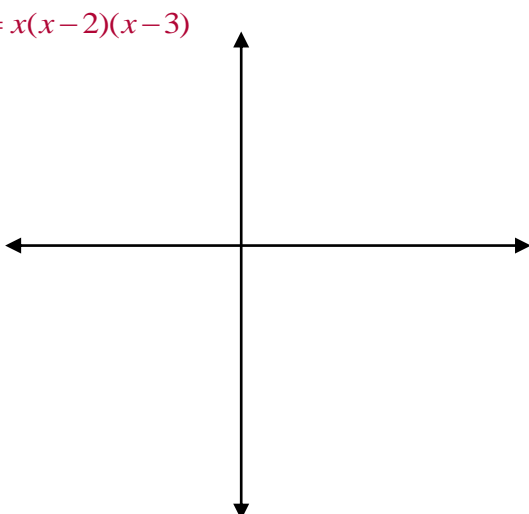
$$y = (x+2)(x-3)(x+1)$$



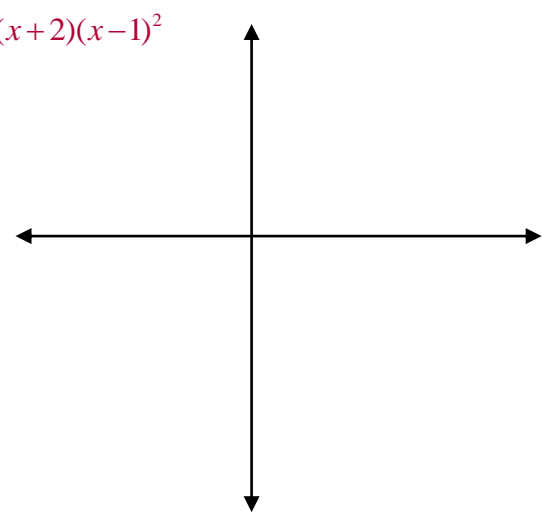
$$y = -(x+2)(x-3)(x+1)$$



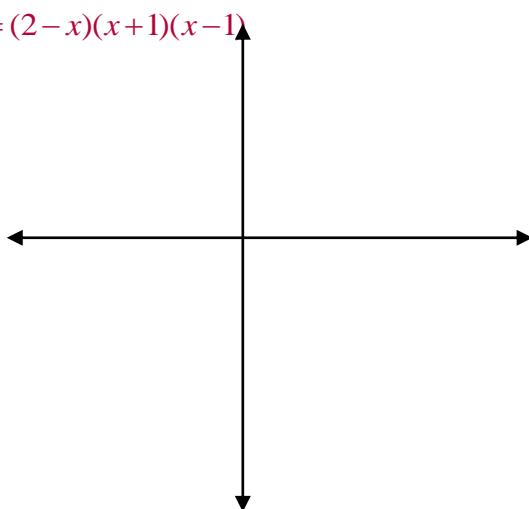
$$y = x(x-2)(x-3)$$



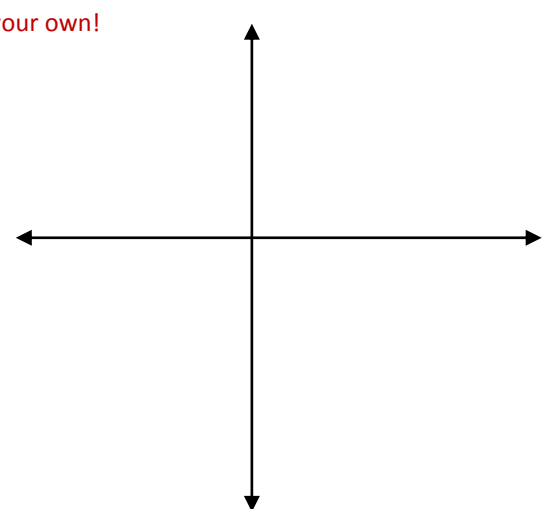
$$y = (x+2)(x-1)^2$$



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

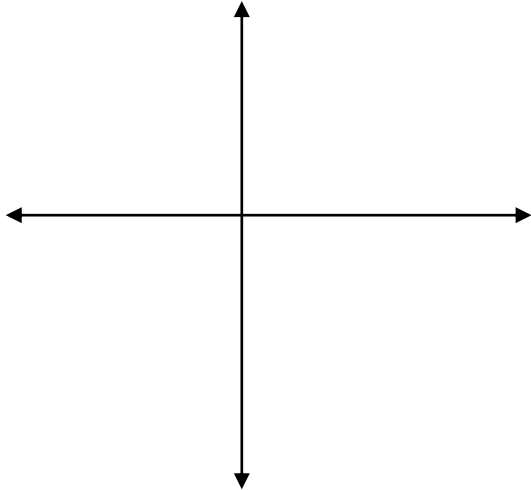


Add your own!

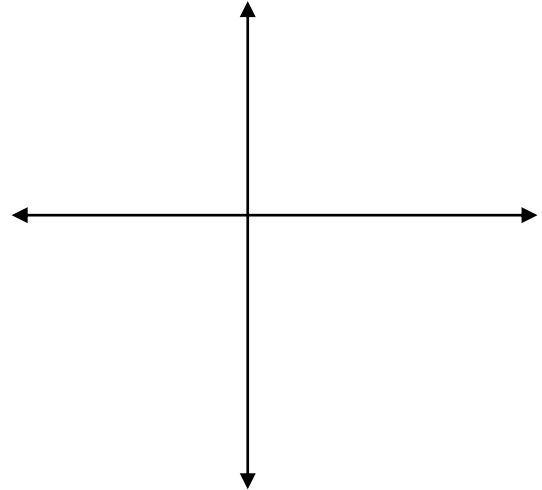


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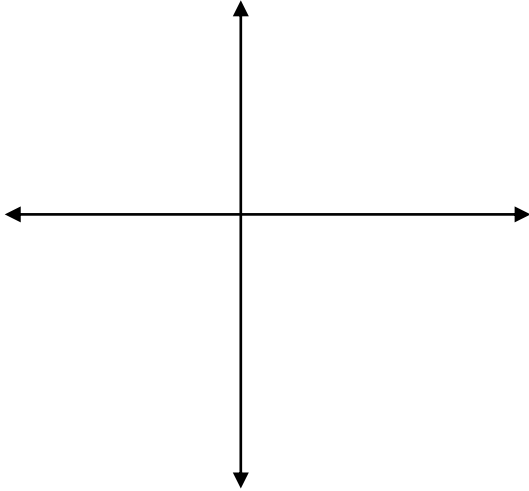
$$y = (x-4)^3$$



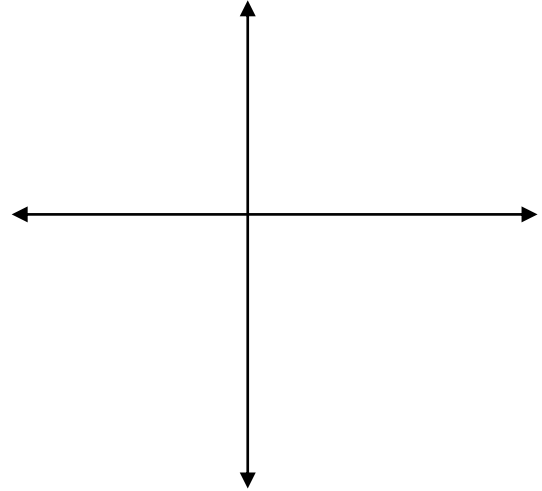
$$y = -(x-4)^3$$



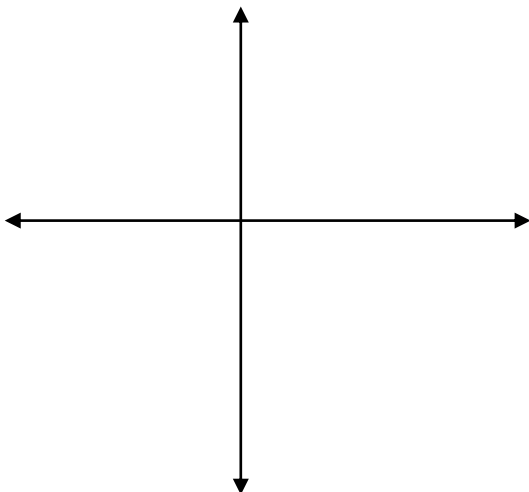
$$y = (1-x)(x-3)^2$$



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



Add your own!



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