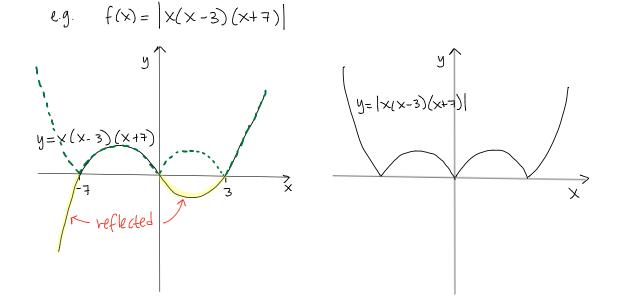
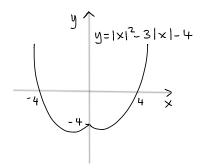
C3 - Chapter 5 - Transformations of graphs - Summary

- * The modulus, or magnitude, of a number a is written as [a] and is the positive value of a.
 - |201| = 201 | = 28.4
- * To sketch the graph of If(x), start by sketching f(x) and then any parts of the curve that lie below the x-axis are reflected along the x-axis.



* To sketch the graph of f(1×1), sketch f(x) for all positive values of x and then reflect the graph along the y-axis so that it also appears in the negative x-axis

e.g. $f(x) = |x|^2 - 3|x| - 4$ y erased $y = x^2 - 3x - 4$ = (x - 4)(x + 1) $y = x^2 - 3x - 4$ = (x - 4)(x + 1)



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* Transformations of graphs

| f(x+x) Translation & units to the left | |
|--|--------|
| $f(\alpha x)$ Stretch along the horizontal by a scale factor e | f 1/2. |
| f(x)+x Translation & units up | |
| xf(x) Stretch along the vertical by a scale factor of | f a |
| f(-x) Reflection along the y-axis | |
| -f(x) Reflection along the x-axis | |

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