Graphs – Q3 [Practice/Y2/M] (25/5/21)

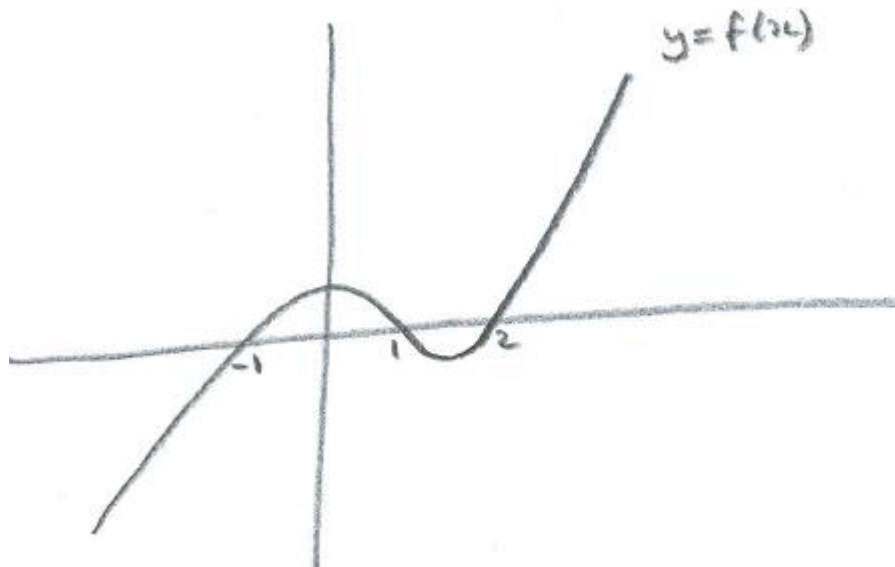If $f(x) = (x + 1)(x - 1)(x - 2)$, sketch the following:

(i) $y = f(x)$ (ii) $y = |f(x)|$ (iii) $y = f(|x|)$ (iv) $|y| = f(x)$

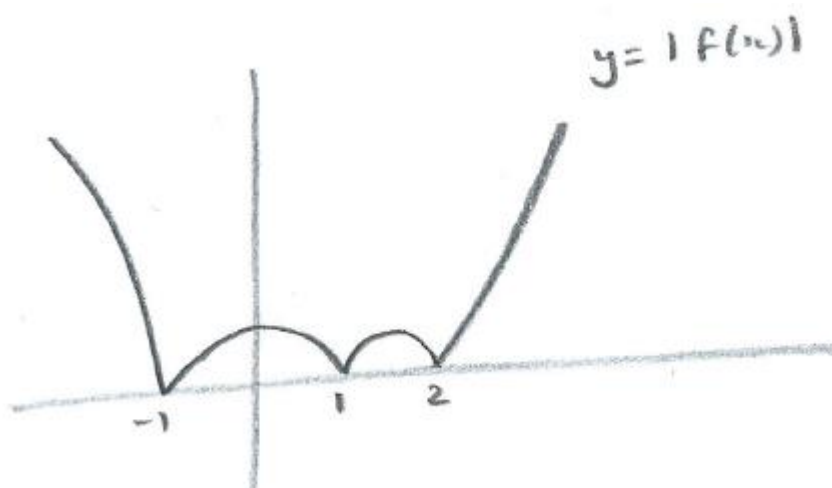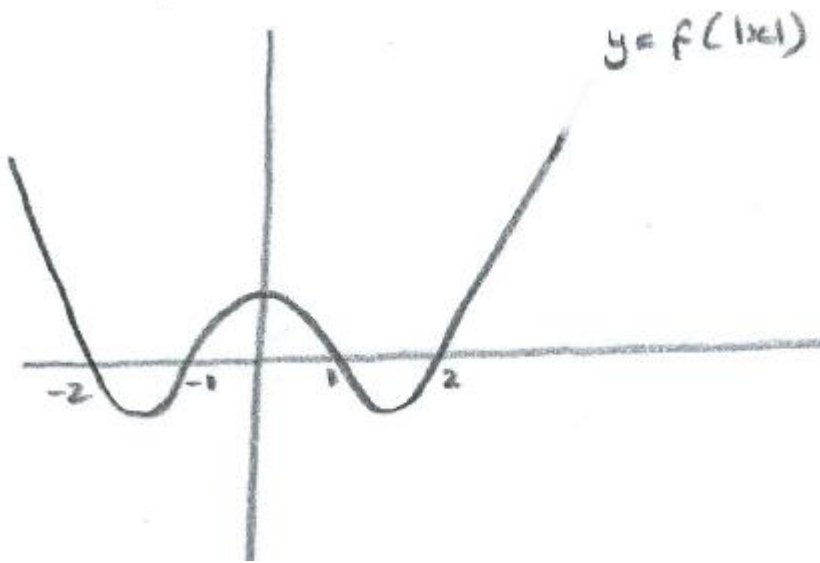If $f(x) = (x + 1)(x - 1)(x - 2)$, sketch the following:

(i) $y = f(x)$ (ii) $y = |f(x)|$ (iii) $y = f(|x|)$ (iv) $|y| = f(x)$

Solution

(i) $y = f(x)$

(ii) $y = |f(x)|$

(iii) $y = f(|x|)$

$y = f(|x|)$

(iv) $|y| = f(x)$

$|y| = f(x)$