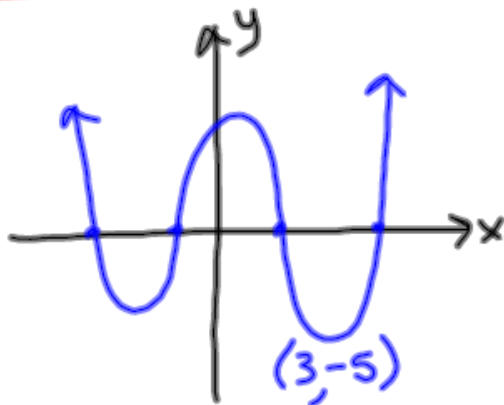


Quartics



positive leading coefficient
 $f(x) = 3x^4 \dots$

4 x-intercepts

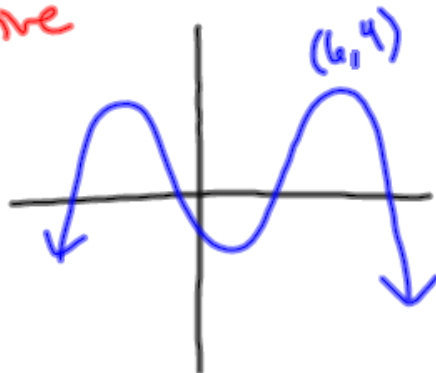
end behavior

extends up in Q1 & Q2

$$D: \{x | x \in \mathbb{R}\}$$

$$R: \{y | y \geq -5, y \in \mathbb{R}\}$$

Negative

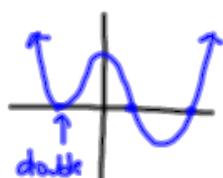


$$D: x | x \in \mathbb{R}$$

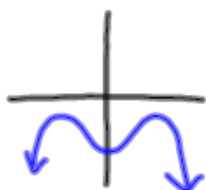
$$R: y | y \leq 4, y \in \mathbb{R}$$

EB: \downarrow Q3 & Q4

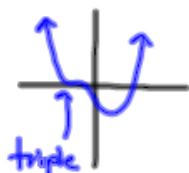
Quartics



positive
4 roots, 3 x-intercepts



negative
no x-intercepts



positive
2 x-intercepts

Quintic Function

Degree of 5

Possible x-intercepts: 5, 4, 3, 2, 1



