$$2y = 5x^3 + 2x^2 + x + 8$$

(3)
$$y = -3x^{2} + 4x^{4} - 5x^{3} - 7x^{5} - 2x + 1$$

(4)
$$y = 9x^2 - 3x^3 + 2x - 1 + 4x^6$$

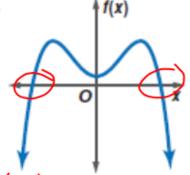
end behavior $f(x) \xrightarrow{\text{approachs}} as x \xrightarrow{\text{approachs}}$

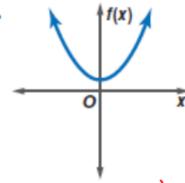
EXAMPLE

Graphs of Polynomial Functions

- For each graph,
 - describe the end behavior,
 - determine whether it represents an odd-degree or an even-degree polynomial function, and
 - state the number of real zeros.

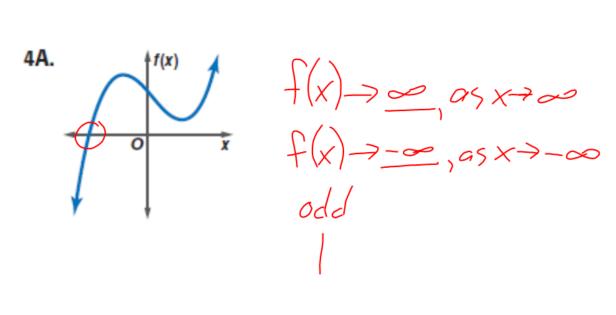
a.





end behavior

 $f(x) \rightarrow \frac{+\infty}{-\infty}$, as $x \rightarrow -\infty$



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