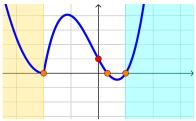
Graphing Polynomials at large x values Using that $P(x) \approx a_n x^n$ Let's consolidate what we saw:

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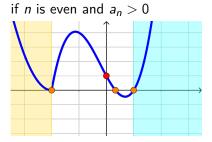


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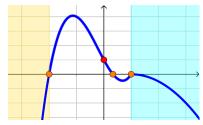




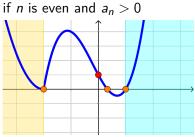
• Using that $P(x) \approx a_n x^n$ Let's consolidate what we saw:



if *n* is even and $a_n < 0$

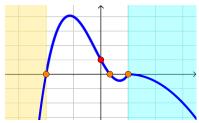


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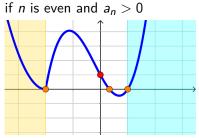


if *n* is odd and $a_n > 0$

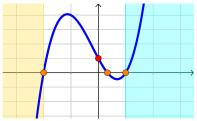
if *n* is even and $a_n < 0$



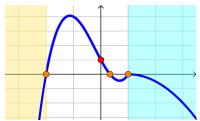
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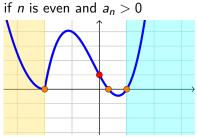
if *n* is odd and $a_n > 0$



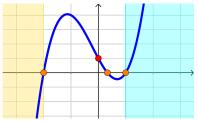
if *n* is even and $a_n < 0$



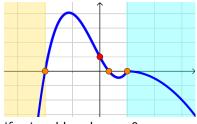
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if *n* is odd and $a_n > 0$

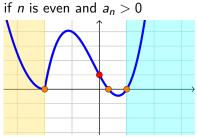


if *n* is even and $a_n < 0$

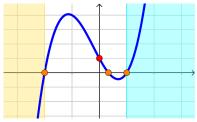


if *n* is odd and $a_n < 0$

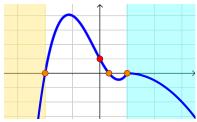
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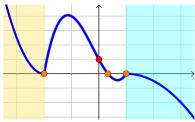
if *n* is odd and $a_n > 0$



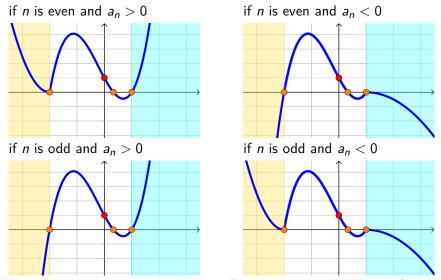
if *n* is even and $a_n < 0$



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Note: It is easier to use this logic to figure out the end behavior for each graph than to memorize all of these scenarios!