Sec 3.2 Investigating Characteristics of Polynomial functions using graphing calculators

p129

-Read Investigate the math statement

-Look through the graphs on Question A

Write out definitions for: *Leading coefficient*, *turning point*, *end behaviours*, *absolute maximum/minimum*

-For each graph, notice the degree, the leading coefficient, end behaviours, and number of turning points.

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Complete the following table by entering the equations in the graphing calculator.

Equation and sketch of graph	Degree	Leading Coefficient	End Behaviours $x \to -\infty$	End Behaviours $x \to \infty$	# of turning points
$y = x^2 - x$					
$y = -2x^2 + 4$					
$y = x^3 + 3x^2 - 2x - 5$					
$y = -x^3 - 4x^2 + 5x$					
$y = x^4 - 5x^2 + 4x - 7$					
$y = -3x^4 + 2x^3 - 3x + 1$					
$y = x^5 - 3x^4 - 2x^3 + 4x^2 - 3x + 5$					

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Summarize the results

Parabolas -

Cubics -

Quartics -

Higher degree -

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Read p135 Carefully

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