

MHF – Grade 12 – Advanced Function
Unit 1 – Polynomial Functions - Unit Test

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Power Functions:

- 1) State the degree and the leading coefficient of each polynomial:

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Polynomial	Degree	Leading Coefficient
a) $f(x) = 3x^2 - 5x + 2$		
b) $f(x) = -2x^3 + 4x^2 - x + 7$		
c) $f(x) = 4x^4 - 2x^3 + 5x^2 + 3$		
d) $f(x) = x^5 - 3x^4 + 2x^3 - 2x^2 + x - 1$		
e) $f(x) = 2x^6 - 4x^4 - 2x^2 + 6$		

- 2) Match each function to its end behavior. Give a brief explanation for your choices (ie: leading coefficient, degree of function, etc...)

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A. $f(x) = x^3 - 3x^2 + 3x - 1$

B. $h(x) = -x^4 + 4x^3 - 5x^2 + 2x - 1$

C. $k(x) = x^4 - 5x^3 + 8x^2 - 4x + 2$

D. $p(x) = -2x^5 + 3x^3 - 4x$

End Behaviour	Functions
Q3 to Q1	
Q2 to Q4	
Q2 to Q1	
Q3 to Q4	

- 3) Complete the following table:

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Graph of Function	Even or Odd Degree?	Sign of Leading Coefficient	End Behaviour
FUNCTION A 			

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