

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:

/5

| 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...)

/2

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

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

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

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

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

3) Complete the following table:

/4

| Graph of Function | Even or Odd Degree? | Sign of Leading Coefficient | End Behaviour |
|---|---------------------|-----------------------------|---------------|
| <p style="text-align: center;">FUNCTION A</p>  | | | |

Grade 12 Advanced Functions Chapter Tests

Michael Brown



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