 Polynomial and Rational Functions Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A2RCC U8D1 Homework













1. For each polynomial, give a power function that best represents the end behavior of the polynomial. Describe (sketch) the end behavior for each.

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| 1. $f(x)=x^{3}+10x^{2}+32x+34$
 | 1. $f\left(x\right)=-x^{2}-8x-15$
 | 1. $f\left(x\right)=-x^{4}+x^{2}+2$
 |
| 1. $f(x)=3x^{4}-4x^{2}-x+3$
 | 1. $f(x)=-5x^{3}+2x^{2}+2$
 | 1. $f(x)=4x^{4}-x^{2}-2$
 |
| 1. $f(x)=x^{3}-3x^{2}+1$
 | 1. $f(x)=3x^{5}-4x^{3}+x+1$
 | 1. $f\left(x\right)=-7x^{5}+4x^{3}-5x-4$
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