

PMATH 12 – MIDTERM NOTE OUTLINE – CH 1-5(5.3)

CHAPTER 1 – Polynomial Expressions and Functions

1. dividing

2. factoring

3. polynomial functions and equations

4. solve problems

CHAPTER 2 – Radical and Rational Functions

1. radical functions

2. rational functions

CHAPTER 3 – Transforming Graphs of Functions

1. translating

2. reflecting

3. stretch, compress

4. combinations

5. inverse

CHAPTER 4 – Combining Functions

1. combine functions – graphically

-algebraically

2. composite functions

Chapter 5 – Exponential Function

1. $y = a^x$

$$y = ca^{d(x-h)} + k$$

$$(x, y) \rightarrow \left(\frac{x}{d} + h, cy + k\right)$$

2. solve equations – must have same base, then exponents are equal