Fin Rev Notes

June 13, 2018 11:05 AM

PMATH 12 - FINAL NOTE OUTLINE - CH 1-8	
CHAPTER 1 – Polynomial Expressions and Functions	opinaka (j. j. kraji kraji ili j. j.
1. dividing	
	a votal A
	per enterior de
2. factoring	
3. polynomial functions and equations	
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4. solve problems	
CHAPTER 2 – Radical and Rational Functions	
1. radical functions	- 17 日本 (17 日本)
1. radical functions	
2. rational functions	non järga ji kinggriji ni mir
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CHAPTER 3 – Transforming Graphs of Functions	
1. translating	
2. reflecting	

Remarks and Internation (1988)

James Cartes Steel 1

- 4. combinations
- 5. inverse

CHAPTER 4 - Combining Functions

1.combine functions - graphically

-algebraically

2. composite functions

CHAPTER 5 - Exponential & Logarithmic Functions

1. exponential –functions $y = ca^{d(x-h)} + k$

C= vert st.
$$\rightarrow$$
 -c reflect xaxir

L= hor. st \rightarrow -d " yaxis

h \Longrightarrow k \downarrow

(x,y) \Longrightarrow ($x + h$, cy + k)

Same base
$$3x+2$$
 = $2x+2$ = $5x+15$

$$2x+2 = 5x+15$$

$$-3x = 13$$

$$x = 13$$

$$log_bc = a then c = b^a$$

$$2^{5}=32 \Rightarrow log_{2}$$

 $2 = 32 \implies \log_b x = 0$ - product quotient $\log_b(x) = \log_b x \oplus \log_b y \qquad \log_b \frac{x}{y} = \log_b x \oplus \log_b y$

$$\log_b(xy) = \log_b x + \log_b y$$

$$\log_b \left(\frac{x}{y} \right) = \log_b x \log_b y$$

C=Vert.st \rightarrow -c range $\frac{1}{d} = hor. st \rightarrow -d \quad (x,y) \Rightarrow \left(\frac{x}{d} + h, cy + k\right)$ $h \iff k \int (x,y) \Rightarrow \left(\frac{x}{d} + h, cy + k\right)$

CHAPTER 6 - Trigonometry

2. radian – π radians – 180 – RAD "mode" on calculator

3.trig functions – transformations $y = a \sin b(x - c) + d$

$$y = a \sin b(x - c) + d$$

$$y = a \cos b(x - c) + d$$

$$a = amplitude$$
 $b \Rightarrow \frac{360}{b} \text{ or } \frac{211}{b} = \text{period}$
 $c \iff d = \text{midline}$

CHAPTER 7 – Trigonometry Equations & Identities

1.solve trig equations - graph, algebra

(iomida sneet)
Verify -> O= To Subst.
prove - use identitres.
1. fundamental counting principal 2 nichelo 3 dimes, 5 quarters # 1. When of help in 1 and = 2 x 3 x 5 = 3 counting principal 2 nichelo 3 dimes, 5 quarters
Holorage of process (of Each - 222 20 = 30
2. permutations $_{n}P_{r} = \frac{n!}{(n-r)!}$ order matters $\begin{cases} R \in P \in T \mid T \mid ON \\ 2! 2! 2! 2! \end{cases}$
8 racers - placing 1st, 2nd, 3rd 2!2!2!
3. combinations ${}_{n}C_{r} = \frac{n!}{(n-r)!r!}$ order does not matter
/0 songs pich 7 $C = \begin{pmatrix} 10 \\ 7 \end{pmatrix}$ which can be a compared as the constant of the property of t
4.binomial theorem $(x + y)^n = {}_nC_0 x^n + {}_nC_1 x^{n-1}y + {}_nC_2 x^{n-2}y^2 + + {}_nC_{n-1} xy^{n-1} + {}_nC_n y^n$
General term $(x + y)^n$ find the 'k'th term ${}_{n}C_{k-1}x^{n-(k-1)}y^{k-1}$
pascel's A