CV 1/4.D

xe A (B/c) (=> xeA ~ xe(B/c) (=>

XEANXT(XEBNX¢C) (=> XEAN (X&BVX C) (=> (XEAN X&B)V(XEAN XEC)

CV1/5A

P+X >Y

9: Y-> Z

 $h = f \circ g \qquad h(x) = g(f(x))$

DUKAZ SPOREM

 $\exists x_{1} \mid x_{2} : x_{1}^{\#} \neq x_{2} : h(x_{1}) = h(x_{2})$ $\forall q(f(x_{1}) = q(f(x_{2}))$ $f(x_{1}) = f(x_{2})$

x1 = x2

CV1/9B

3 * 2 6 2 ; \$ x: h(x) = 2

3 x eX; p(x)=y 3 7 x eX: h(x)= g(f(x))-7

CU 1/6A

F: X > Y , AIB C X

F(A) U F(B) = F(AUB)

 $f(\alpha,A) = \{ f(A) : f(\alpha) : cheA \} \{ f(x) : x \in A \times x \in B \}$

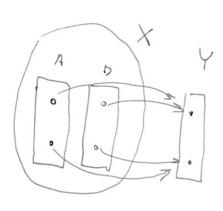
F(AUB) = { F(g) i ge A v ge B} x ig eA v x ig e!

6.D)

 $f(A) = \{ f(a) \mid a \in A \}$

f(B): { f(L): Le B}

f(aAnB)= {f(x); xeAn xeB}



F(x):x EAN X & BVX &ANX.

ACN: $A = IN = (1 \in A) \land (\forall k \in A : k + 1 \in A)$ CV2 10) PRO $\forall m \in IN : 2^m > m \land 3^m > n^2$ ① n = 12 $2^{m+1} > m + 1$ $2^{n+1} > 1$ $2^m > m + 1$ 2 > 1 $2^m > m + 1$ 2 > 1 $2^m > m + 1$ 2 > 1 $2^m > m + 1$ $2^m > m + 1$ $2^m > m + 1$

 $\frac{3^{m}}{3^{n}} > n^{n}$ $\frac{3^{n}}{3^{n}} > 1$ $\frac{3^{m+1}}{3^{m}} > (n+1)^{2}$ $\frac{3^{m}}{3^{m}} > n^{2} + 2n + 1$ $\frac{3^{m}}{3^{m}} > 1$ $\frac{3^{m}}{3^{m}} > 1$ $\frac{3^{m}}{3^{m}} > 1$

MA CU 8/10/14 4 $\frac{1}{2} \cdot \frac{3}{4} \cdot \frac{2n-1}{2n} < \frac{1}{\sqrt{2m+1}}$ $\frac{1}{2} \frac{1}{\sqrt{2+1}} \frac{1}{\sqrt{2+1}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2(n+1)}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2(n+1)}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2(n+1)}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2(n+1)}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2(n+1)}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2(n+1)}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}}$ $\frac{1}{2} \left(\frac{1}{\sqrt{3}} \right) \frac{n}{1!} \frac{2k-1}{2k} \cdot \left\{ \frac{2(n+1)-1}{2(n+1)} \left(\sqrt{2n+3} \right) \right\}$ $\frac{1}{11} \frac{2k-7}{2h} \cdot \frac{2(n+1)-7}{2(n+1)} \left(\frac{1}{\sqrt{2m+7}} \cdot \frac{2(n+1)-7}{2(n+1)} \right) \frac{1}{\sqrt{m+3}}$ $\frac{2(m+1)-7}{2(m+1)} \leq \frac{1}{\sqrt{2m+3}}$ $\frac{1}{2n+1} \cdot \frac{(2n+1)^2}{2^2(n+1)^2} \leq \frac{1}{2n+3}$ 2 min

3 < 4