## **HOMEWORK #4**

PLEASE WRITE YOUR FULL NAME AND THEN SUBMIT YOU	JR HOMEWORK
ANSWERS	

C(E)=

Name:

# Problems 13.4 a-13.4b

### **QUESTION 1**

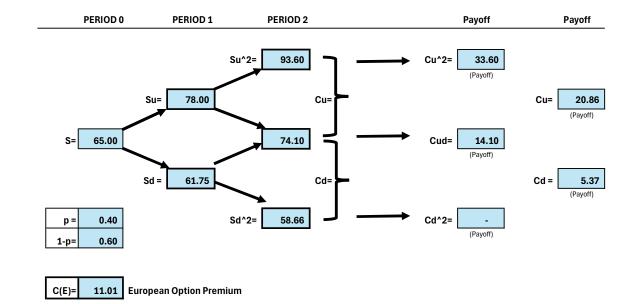
Use the input information below to calculate the Call option using both the BOPM Probability and Leveraged (6-step) methods. Show your detail work as suggested below

2.14 European Option Premium

		Me	thod 2 (Probability Method)			Met	hod 1 (Leverag	e 6-Step Method	d)
INPUT		PERIOD 0	PERIOD 1	Payoff	_		_		
S =	\$ 45.00			<b>L</b>		Step 1	Su - Sd =	13.50	
u =	1.25x		Su= 56.25	Cu= 6.75		Step 2	Cu - Cd =	6.75	
d =	0.95x	/				Step 3	h =	0.50	
X =	\$ 49.50	S= 45.00		,					
i=	5.00%					Step 4	PV (Sd) =	40.71	
Freq=	1		Sd = 42.75	Cd=		Step 5	S-PV(Sd)=	4.29	
Periods=	1					Step 6	ו(S-Pv(Sd)=	2.14	
		p = 0.33 1-p= 0.67							

#### **QUESTION 2**

Use the input information below to calculate the Call option using both the BOPM Probability method. Show your detail work as suggested below



INPUT					
S =	\$	65.00			
u =		1.20x			
d =		0.95x			
X =	\$	60.00			
i =		5.00%			
Frequency=		1			
Periods=		2			

#### **QUESTION 3**

Use the input information below to calculate the Put option using both the BOPM Probability method. Show your detail work as suggested below

