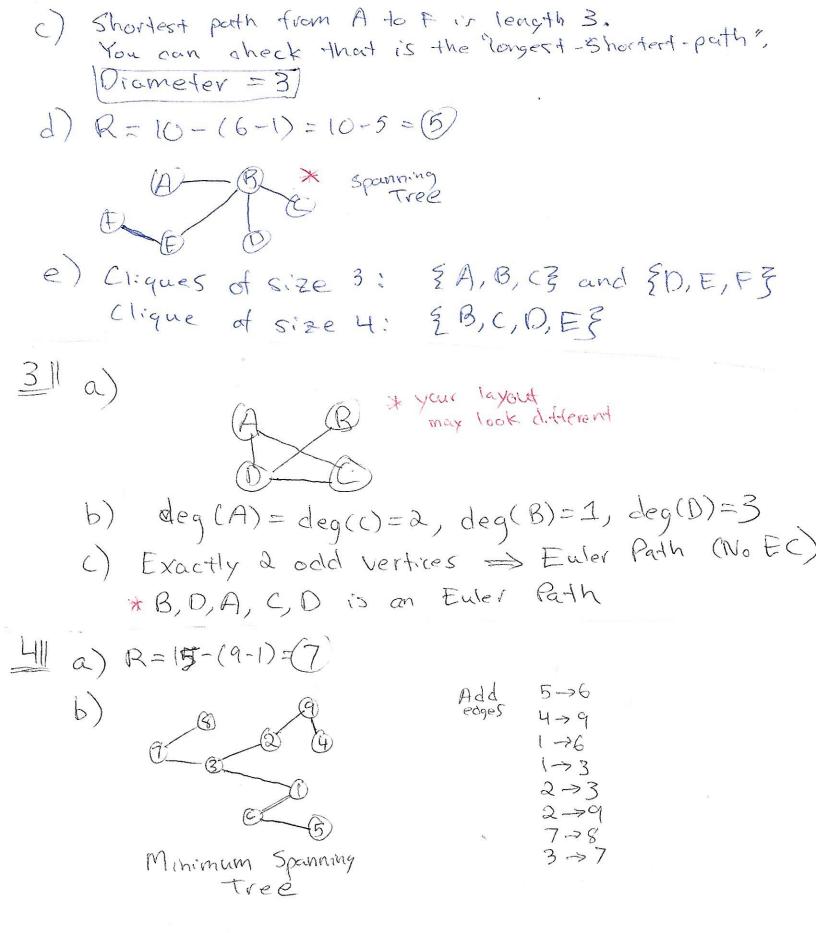
Math 17 Final Exam Study Guide Solutions \* = multiple possible answels III a) {1-2,1-5,2-3,2-5,3-4,4-5,4-6} 1,2,3,4 is a path of length 3 1,2,5,4 also works C) \*1,2,5 is a circuit. This is not a tree. No EP/EC since more than 2 odd vertices From 1 to SP length SP length To From 1 2 Diameter = (3) R=7-(6-1)=7-5=(2) \* Spanning 3 a) \* your layout different All even vertices > there is an EC (and therefore also EP) Vertex \*A,B,C,D,E,F,D,B,E,C,A is an Euler Circuit



Hopter I

Hoters 10 8 5 1

Hoters 10 8 5 1

A B B

A A

And B A

And B

And B A

And B

And

1. Borda count  

$$A = 10(a) + 8(4) + 5(3) + 1(3) = 70$$
  
 $B = 10(3) + 8(3) + 5(4) + 1(4) = 78$   
 $C = 10(4) + 8(1) + 5(1) + 1(2) = 55$   
 $C = 10(4) + 8(1) + 5(1) + 1(1) = 37$   
[Ranking B, A, C, D]

2. Pairwise Compourisons

A VS B | 8 VS 16 A VS C | 14 VS 10 B VS D | 24 VS O

(B) vs C : 14 vs 10 (B) vs D : 24 vs O Cvs (D) 11 v 13

A=2, B=3, C=0, D=1 Pts Ranking B, A, D, C) Chapter 3

<u> </u>	1 EW	EB	IC	17	total	. Fair Shave
Harry	(600)	300	(200)	100	1200	400
Ron	200	(490)	150	(00)	900	300
Hermione	100	200	100	900	)900	300

Harry gets 800 which is 400 more than FS >> Harry owes 400,

Ron gets 450 which is 150 more than FS

=> Ron ower 150

Hermione gets 500 which is 200 more than FS

=> Hermione ones 200

Money pot =  $400 + 150 + 200 = 750 \Rightarrow \frac{500}{3} = \frac{150}{3} = 250$ 

Final Settlement

= EW+IC, owe 150 Harry: EW + 250-400

= FB, get 100 Ron: FB + 250 - 150 = TT, get 50 Hermione: TT + 250 - 200

## Chapter 10

Compounding Plan	1 F
annually	3800(1+.03)3 = 3477.82
semi-annually	$3000(1+\frac{.03}{2})^{5.2}=3481.62$
quarterly	3600(1+ 03)5.4-3483.55
monthly	3000(1+ :03) 5-12 = (3484,85)
.1	

Simple interest P=3000

$$1.16 = \frac{3484.85}{3000} = 1.157$$

$$r = 1.16 - 1 = .032$$

1. Min = 1, Max = 9

$$Min = 1$$
,  $C_1 = \frac{25}{100} \cdot 10 = 2.5 \rightarrow 01 = d_3 = 4$ 

2.

3. Mean = (1+2+4+3(5)+2(6)+7+9)/10 = 4.6

$$5d^2 = [(1-4.6)^2 + (2-4.6)^2 + ... + (9-4.6)^2]/10$$

M-, 6750 = 4.6-,675.2.23 = 6,11 2 6

Actual quartiler no - 11.

Actual quartiles are pretty close to what they would be if we assumed data to be normally distributed, and conclude Data is approximately normal