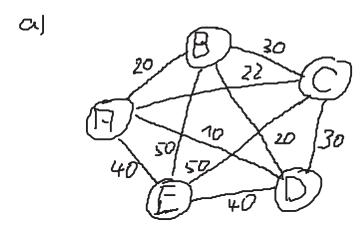
Aufgabe 6

Mittwoch, 23. Februar 2011 07:19



Ь)	/ AD	J PB	BD_	AC	BCCD	HE DE	BE CE
_	10	20	20	22	30 30	40 40	50 50
1)	•	•		•			
2)	•		•	•	}	#	
3)	0	O	}	0	}	O	
4)	•		• }	•	}		

Walsle nachste Komte in aufsteigender Benesting Wenn sie heinen Kreis im Graphen schlieft.

C) MST = Minimal Spanning Trees

Lösung Aufgabe 7

$$p = \frac{1}{100} = 0.01$$
 für "CD defek!"
 $q = 0.99$

$$P(X=2) = A - P(X < 2)$$

$$= A - \left[P(X=0) + P(X=1)\right]$$

$$= A - \left(\binom{10}{0} \cdot 0.0A^{0} \cdot 0.99^{10} + \binom{10}{1} \cdot 0.0A^{1}0.99^{9}\right)$$

$$= A - 0.99^{10} - 10 \cdot 0.04 \cdot 0.99^{9}$$

$$= 0.0042662$$

$$= 1 - \overline{\Phi} \left(\frac{1010 - 1000}{5} \right)$$

Ubergang zur Stand.norm.v.

$$= 1 - \int_{7}^{7} \left(\frac{10}{5}\right) = 1 - \int_{7}^{7} (2)$$

$$= 1 - 0.9772$$
Tabelle = 0.0228

Lösung Aufgabe 8

a)
$$(272 + 272i)^5$$
 $= 2$
 $|z| = 14 \cdot 2 + 4 \cdot 2 = 1/6 = 4$
 $f = \arctan \frac{272}{272} = \arctan 1$
 $\Rightarrow f = \frac{\pi}{4} = 45^\circ$
 $= 1024 \cdot e^{i \cdot 25^\circ}$
 $= 1024 \cdot e^{i$

$$Z_0 = 2 e^{i / 5^{\circ}}$$

 $Z_1 = 2 e^{i (15^{\circ} + 120^{\circ})} = 2 e^{i / 35^{\circ}}$
 $Z_2 = 2 e^{i (15^{\circ} + 2.120^{\circ})} = 2 e^{i / 255^{\circ}}$

(5) Notwerd. Bed.
$$W_d = 0$$
 1 $W_t = 0$
 $W_d = 16 d - d^2 = d(16 - d) = 0$ (=) $d = 0 \ v d = 16$
 $W_t = 6 - t = 0$ (=) $t = 6$
 $W_t = 6 - t = 0$ (=) $t = 6$
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 $W(16,6) = 900, \overline{6}$