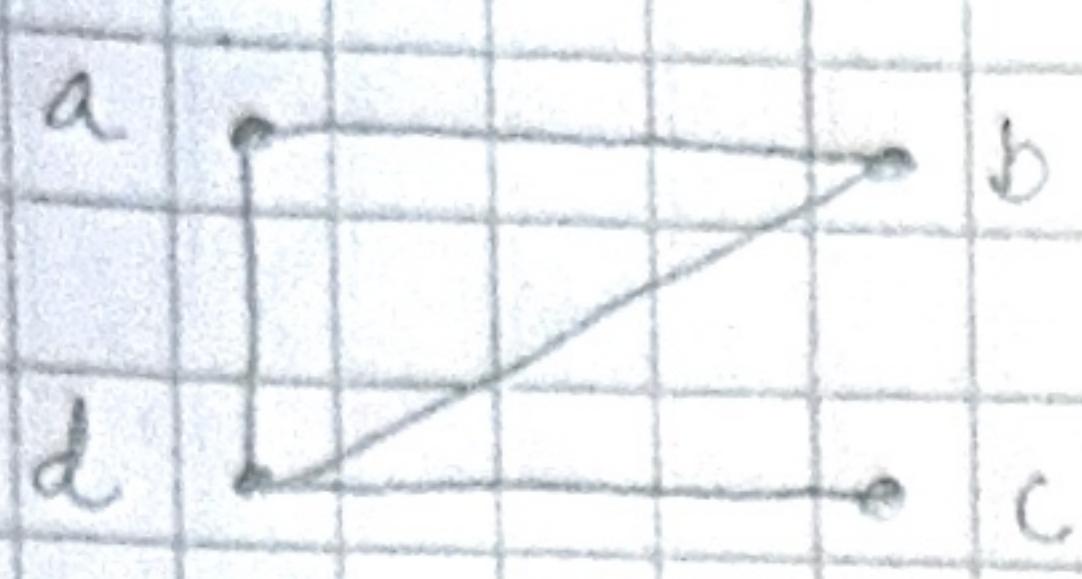


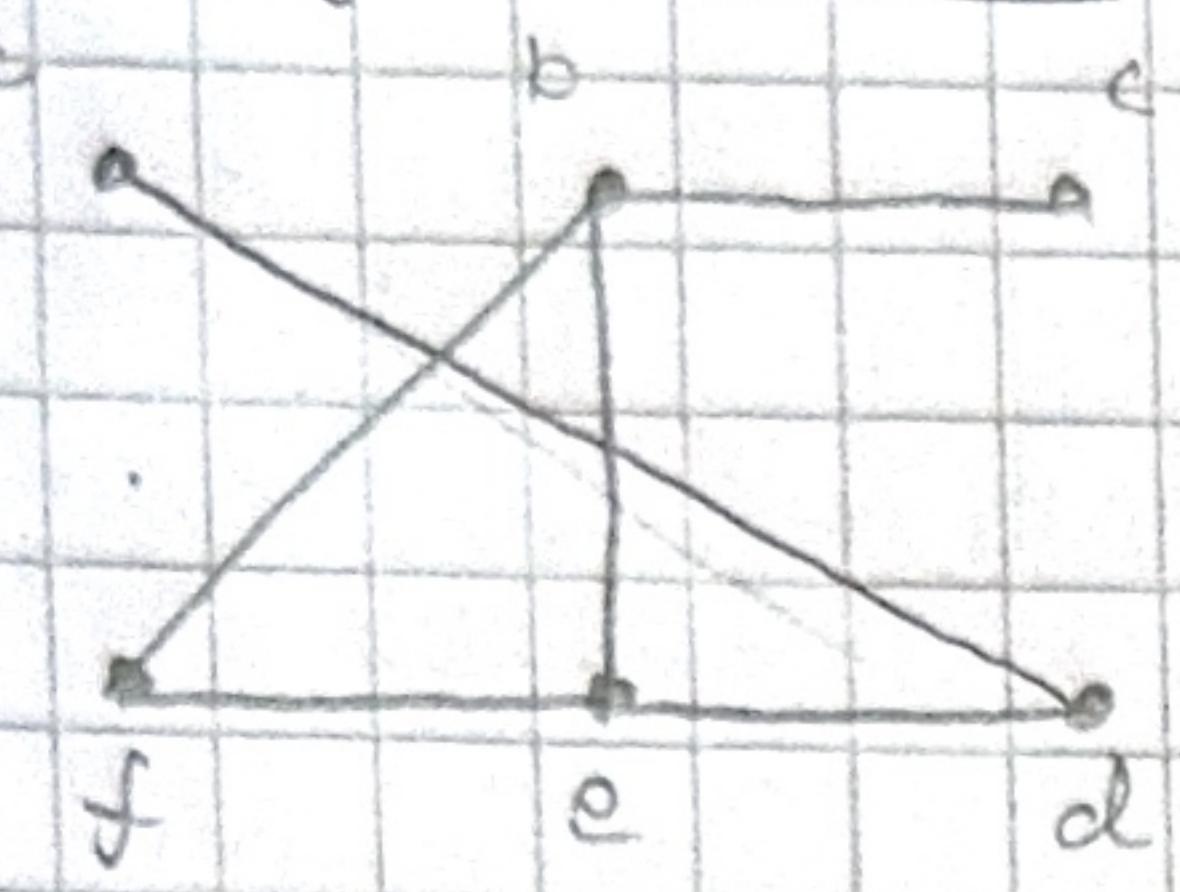
Olig 11

appgave 12.1.3



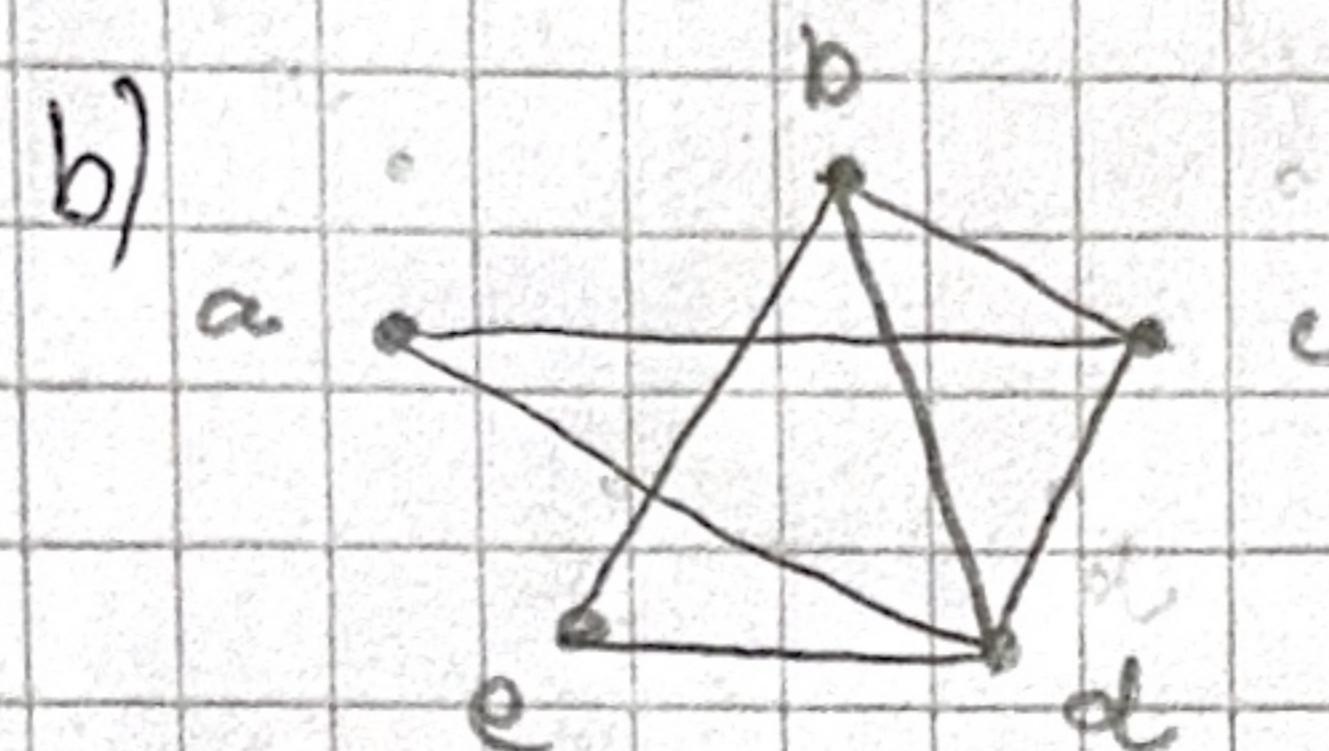
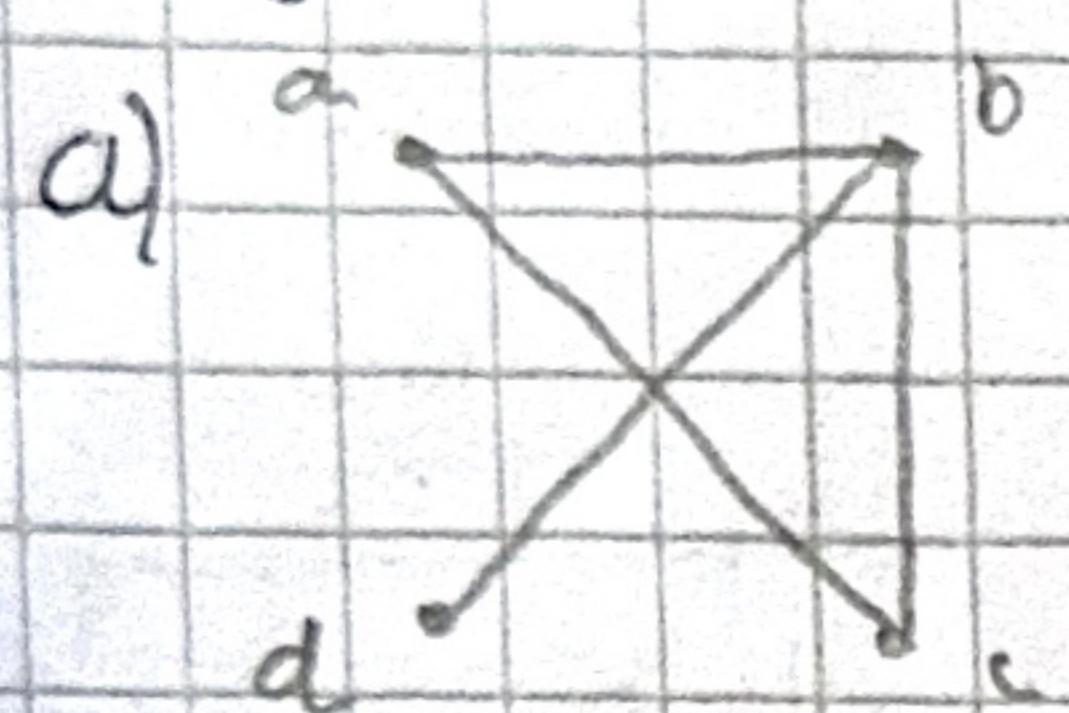
	a	b	c	d
a	0	1	0	1
b	1	0	0	1
c	0	0	0	1
d	1	1	1	0

Oppgave 12.1.4



	a	b	c	d	e	f
a	0	0	0	1	0	0
b	0	0	1	0	1	1
c	0	1	0	0	0	0
d	1	0	0	0	1	0
e	0	1	0	1	0	1
f	0	1	0	0	1	0

Oppgave 12.1.5.



oppave 12.16

a) $V = \{a, b, c, d, e, f\}$

$$E = \{(a,b), (a,e), (a,f), (b,e), (d,e), (e,f)\}$$

b) $V = \{a, b, c, d, e\}$

$\{(\overline{a}, b), (\overline{a}, d), (\overline{a}, e), (\overline{b}, c), (\overline{b}, \overline{d}), (\overline{c}, \overline{d}),$
 $(\overline{d}, \overline{d}), (\overline{e}, \overline{e})\}$

c) $V = \{a, b, c, d, e, f, g, h\}$

$$E = \{(ab), (a,c), (a,g), (b,g), (b,f), (c,f), (c,e), (e,d), (f,g)\}$$

3

Oppgave 12.1.7

	a	b	c	d	e	f
a)	0	1	0	0	1	1
b	1	0	0	0	1	0
c	0	0	0	0	0	0
d	0	0	0	0	1	0
e	1	1	0	1	0	1
f	1	0	0	0	1	0

	a	b	c	d	e
a	0	3	0	1	1
b	3	0	1	1	0
c	0	1	0	1	0
d	1	1	1	1	0
e	1	0	0	0	1

Oblig 11

[Oppgave 12.1.11]

$$G = \{V_g, E_g\}$$

a) Nei, ufullstendig node

b) Ja, $V_b = \{V_g(a), V_g(b), V_g(c), V_g(d)\} \subseteq V_g$

Eftersom b mangler noder
vises det til G_1 .

c) Ja, $V_c = \{V_g(a), V_g(c), V_g(d), V_g(e)\} \subseteq V_g$

[Oppgave 12.1.12]

$$G = \{V_g, E_g\}$$

a) Ja, $V_a = \{V_g(a), V_g(b), V_g(d), V_g(e)\}, E_a = \{E_g(ka), E_g(bd), E_g(be), E_g(ae), E_g(de)\}$

b) Nei

c) Ja, $V_c = \{V_g(a), V_g(c)\}$

[Oppgave 12.1.14]

a) Ja, like antall noder og kanter. Like grader

b) Nei, ulike grader

c) Ja, like antall noder, kanter og grader

d) Nei, ulike grader

Oblig 11

[Oppgave 12.1.15 b og c]

b) Eulersyklus = Ja (d,f,e,c,b,e,a,b,f,a,d)

c) Eulersyklus = Nei

[Oppgave 12.1.16]

a) Nei

b) Ja - a,b,c,e,f,d,c

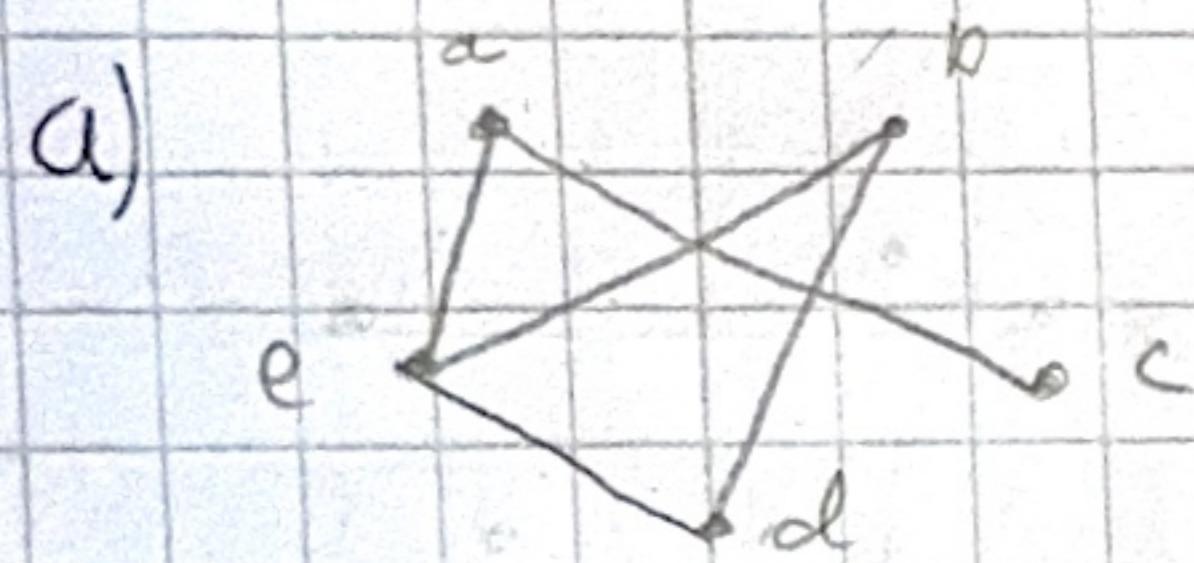
[Oppgave 12.2.1 b, e og f]

b) Nei, ikke sammenhengende

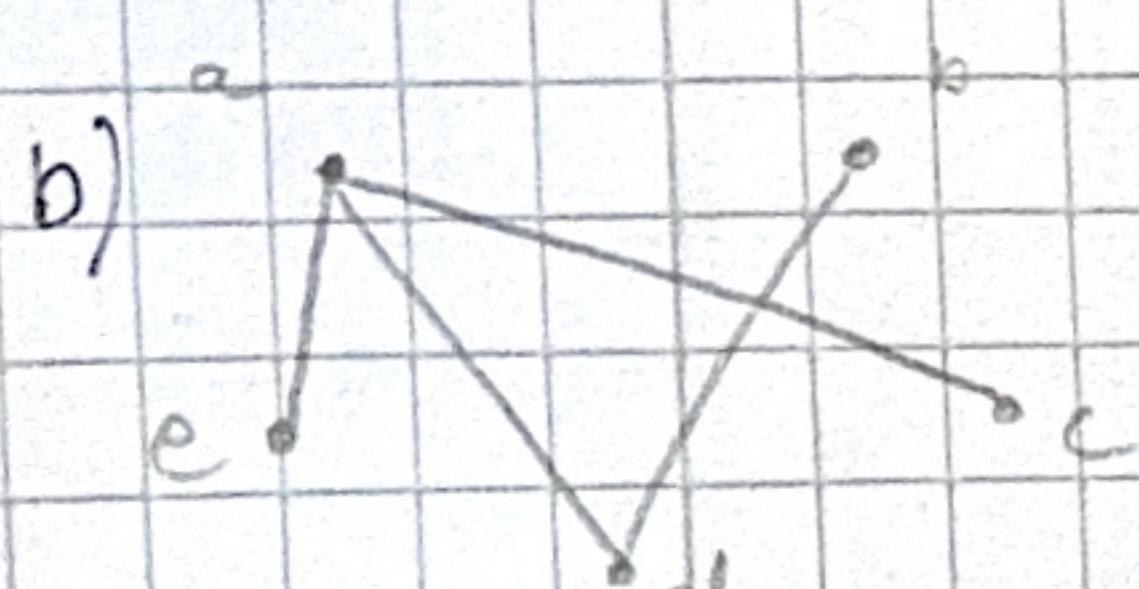
c) Nei, har syklus

f) Ja

[Oppgave 12.2.2]



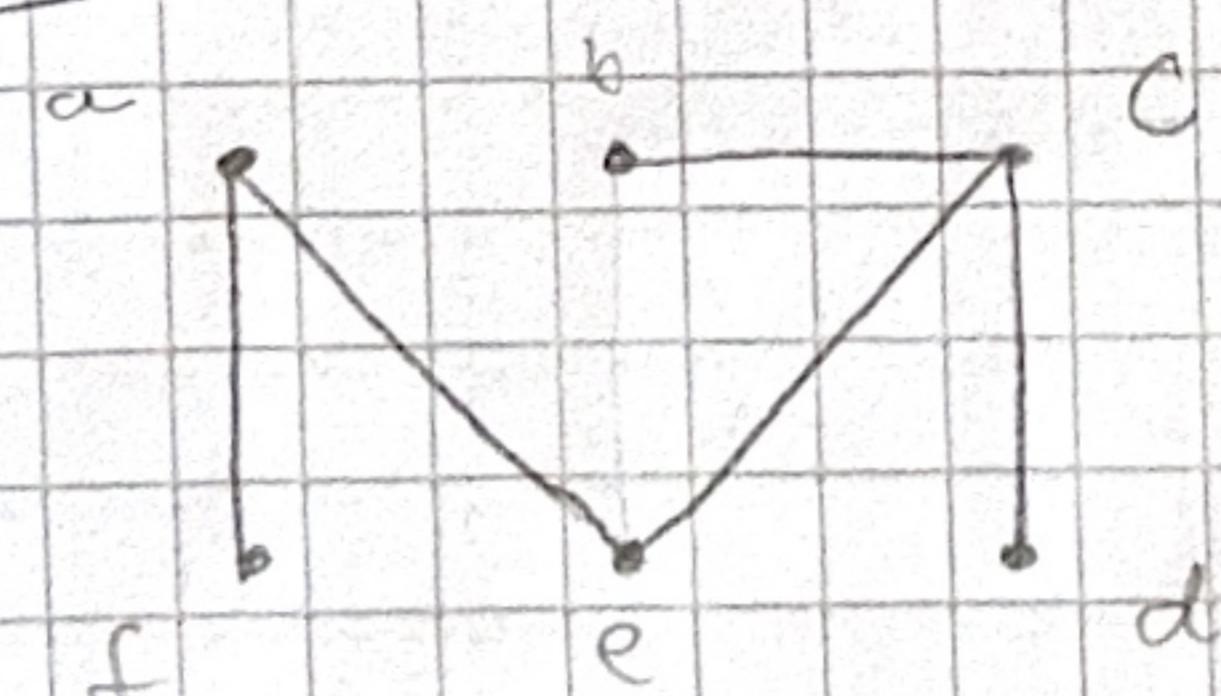
Ikke tre - har syklus og ikke n-1 høyter



Er et tre - ingen syklus og har n-1 høyter

[Oppgave 12.2.4 a]

- 1: (a,e)(c,e)
- 3: (b,c)(c,d)
- 4: (a,f)(d,f)
- 5: (a,f)(b,e)(e,f)
- B: (a,b)
- 7: (d,f)



$$= \{(a,e)(c,e), (b,c), (c,d), (a,f)\}$$