

2.1

a) $V = 16$

$E = 24$

$F = 10$

$L = 8$

$S = 1$

$\Rightarrow G = V - E + F - (L - F) - 2 \cdot (S - 0) = 0 \quad | +G$

$V - E + F - (L - F) - 2 \cdot (S - 0) = G$

$= 16 - 24 + 10 - (8 - 10) - 2 \cdot (1 - 0) = G$

$= 16 - 24 + 10 - (-2) - 2 \cdot (1)$

$= 2 - (-2) - 2$

$= 2 + 2 - 2$

$G = 2$

b) $V = 24$ $(8 + 16)$

$E = 36$ $(12 + 24)$

$F = 13$ $(6 + 10 - 3)$

$L = 12$ $(4 + 8)$

$S = 1$

$\Rightarrow G = V - E + F - (L - F) - 2 \cdot (S - 0) = G$

$= 24 - 36 + 13 - (12 - 13) - 2 \cdot (1 - 0)$

$= 1 - (-1) - 2$

$G = 0$

c)

$V = 24$

$E = 34$

$F = 14$

$L = 12$

$S = 1$

$\Rightarrow G = V - E + F - (L - F) - 2 \cdot (S - 0)$

$= 24 - 34 + 14 - (12 - 14) - 2 \cdot (1 - 0)$

$= 4 - (-2) - 2$

$G = 4$

d)

$V = 32$

$E = 46$

$F = 16$

$L = 16$

$S = 1$

$\Rightarrow G = V - E + F - (L - F) - 2 \cdot (S - 0)$

$= 32 - 46 + 16 - (16 - 16) - 2 \cdot (1 - 0)$

$= 2 - (-4) - 2$

$G = 4$

e)

$V = 24$

$E = 36$

$F = \dots$

f)

$V = 32$

$E = 48$

$F = \dots$

$$V = 24$$

$$E = 36$$

$$F = 14$$

$$L = 12$$

$$S = 1$$

$$\begin{aligned} \Rightarrow G &= V - E + F - (L - F) - 2 \cdot (S - 0) \\ &= 24 - 36 + 14 - (12 - 14) - 2 \cdot (1 - 0) \\ &= 2 - (-2) - 2 \\ G &= 2 \end{aligned}$$

$$V = 32$$

$$E = 48$$

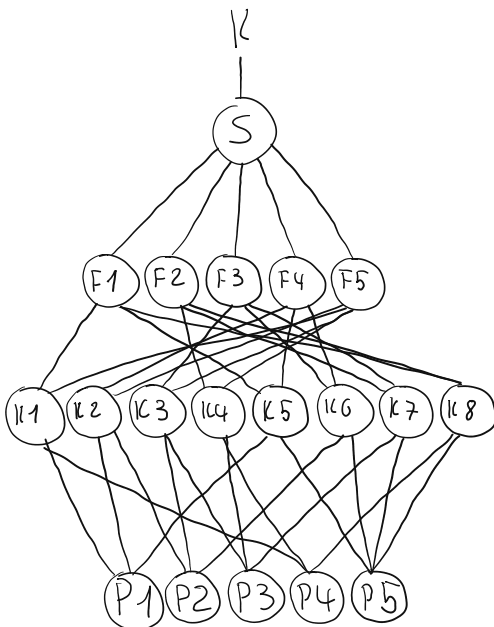
$$F = 16$$

$$L = 16$$

$$S = 1$$

$$\begin{aligned} \Rightarrow G &= V - E + F - (L - F) - 2 \cdot (S - 0) \\ &= 32 - 48 + 16 - (16 - 16) - 2 \cdot (1 - 0) \\ &= 0 - (-0) - 2 \\ \underline{\underline{G = -2}} &\leftarrow \text{wirkt ziemlich falsch} \end{aligned}$$

2.2



2.3