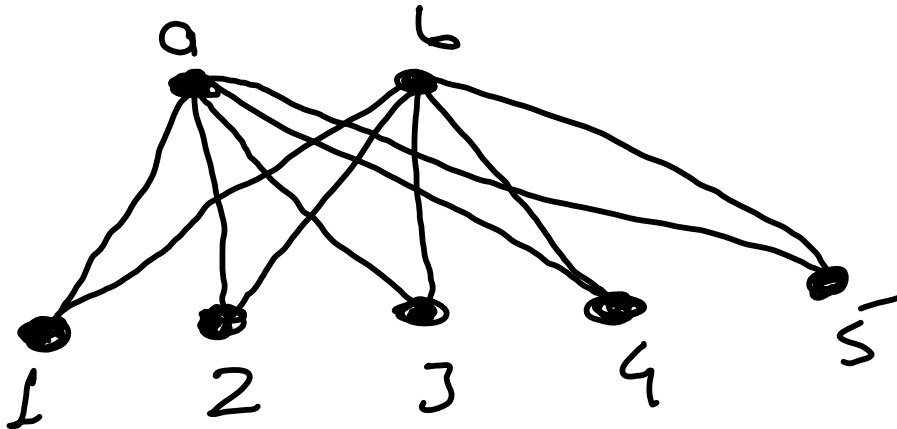


14. 4af + 9

24.05.2023

① (not)

$$sc(K_{2,5}) = ?$$



$$sc(G) = \max_{S \subseteq V(G)} \{ |w(G-S) - 1| : w(G-S) \geq 1 \}$$

$$S = \{a, b\}$$

$$G - \{a, b\}$$

$$|S| = 2$$

$$w(G-S) = 5$$

$$sc(G) = 5 - 2 = 3$$

$$S = \{1, 2, 3, 4, 5\}$$

$$|S| = 5$$

$$w(G-S) = 2$$

$$sc(G) = 2 - 5 = -3 //$$



$$S = \{a, b, 1\}$$

$$|S| = 3$$

$$w(G-S) = 4$$

$$sc(G) = 4 - 3 = 1$$

$$G-S \text{ gives } G - \{a, b, 1\}$$



$$\text{Solve above: } sc(K_{2,5}) = 3 //$$

$$\text{Genl hold: } sc(K_{m,n}) = n - m$$

$$(m \leq n \text{ above})$$

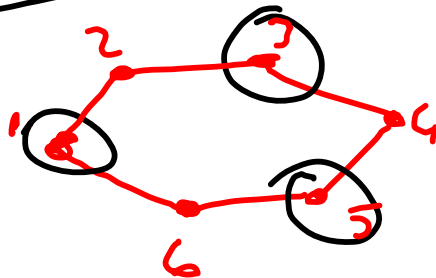
$$sc(K_{m,n}) = \max \{n - m, m - n\}$$

$r(C_n) = -1$  olb. hexagon!!!

$$x \leq \frac{n}{2}$$

$$X = \{3, 5\}$$

$$|X| = x = 2$$



$$w(C_n - X) \leq x$$

$$w - |X| - m$$

$$x - x - m \leq \left\lceil \frac{n - |X|}{w} \right\rceil$$

$$r(C_n) \leq -1$$

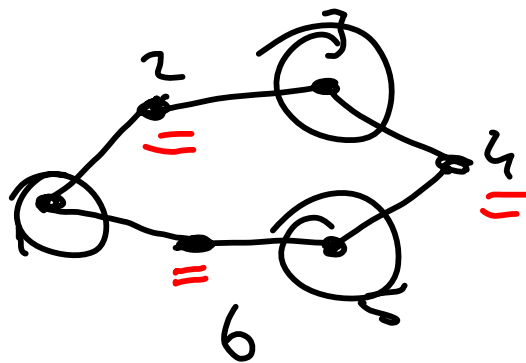
$x \geq \frac{n}{2}$  ise:

$$x = \frac{n}{2}$$

$$X = \{1, 3, 5\}$$

$$|X| = x = 3$$

$$w(C_n - X) = x$$



$$w - |X| - m$$

$$x = \frac{n}{2} \quad r(C_n) = \frac{x - x - 1}{w}$$

$x \geq \frac{n}{2}$  ise  $w(C_n - X) < x$

$$m(C_n - X) = 1$$

$$\left\lceil \frac{x - x - 1}{w} \right\rceil = -1$$

$$r(C^n) \leq -1$$

$$r(C^n) \geq -1$$

$$\left. \begin{array}{l} r(C^n) \leq -1 \\ r(C^n) \geq -1 \end{array} \right\} \boxed{r(C^n) = -1}$$