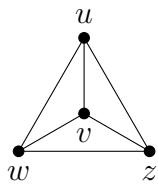


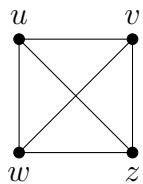
2.10 1) (a)



$$V_1 = \{u; v; w; z\}$$

$$E_1 = \{uv; uw; uz; vw; vz; wz\}$$

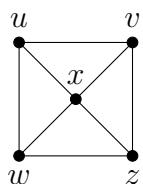
(b)



$$V_2 = \{u; v; w; z\}$$

$$E_2 = \{uv; uw; uz; vw; vz; wz\}$$

(c)



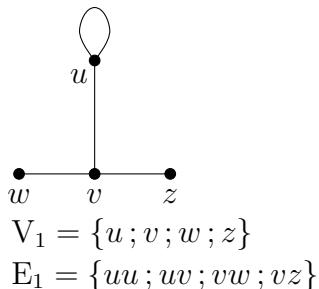
$$V_3 = \{u; v; w; x; z\}$$

$$E_3 = \{uv; uw; ux; vx; vz; wx; wz; xz\}$$

On constate que $V_1 = V_2$ et $E_1 = E_2$: les deux premiers graphes sont identiques.

En revanche, le troisième graphe possède 5 sommets (au lieu de 4) et 8 arêtes (au lieu de 6) : il est manifestement différent.

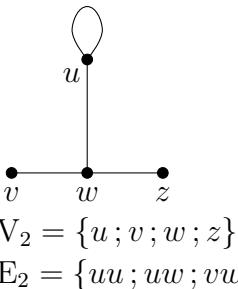
2) (a)



$$V_1 = \{u; v; w; z\}$$

$$E_1 = \{uu; uv; vw; vz\}$$

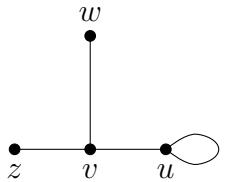
(b)



$$V_2 = \{u; v; w; z\}$$

$$E_2 = \{uu; uw; vw; wz\}$$

(c)



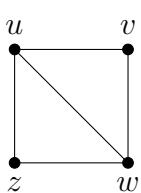
$$V_3 = \{u; v; w; z\}$$

$$E_3 = \{uu; uv; vw; wz\}$$

On remarque que $V_1 = V_2 = V_3$ et que $E_1 = E_3$: les premier et troisième graphes sont identiques.

Par contre, $E_2 \neq E_1$ et $E_2 \neq E_3$: le deuxième graphe est différent.

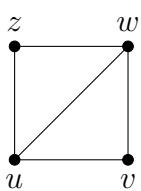
3) (a)



$$V_1 = \{u; v; w; z\}$$

$$E_1 = \{uv; uw; uz; vw; wz\}$$

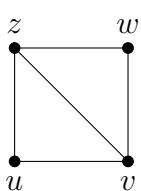
(b)



$$V_2 = \{u; v; w; z\}$$

$$E_2 = \{uv; uw; uz; vw; wz\}$$

(c)



$$V_3 = \{u; v; w; z\}$$

$$E_3 = \{uv; uz; vw; vz; wz\}$$

On remarque que $V_1 = V_2 = V_3$ et que $E_1 = E_2$: les premier et deuxième graphes sont identiques.

Par contre, $E_3 \neq E_1$ et $E_3 \neq E_2$: le troisième graphe est différent.