7. La ve verifice doca usmatoorele sultimi sunt mati vectoriale:

a)
$$R[Q]$$
 +: $R \times R \rightarrow R$ ($(P_1 + 1) - cons$. rom. $(P_1 + 1) - grup$. rom.

4) 7 x = x, y x eR, 1g-el. rentru En Q => R/Q & gratin rectorial.

c)
$$C|Q$$
 $t: C \times C \to C$ $(Q_1 t, \bullet) - Royn. rown.$
 V/K $\bullet: Q \times C \to C$ $(C_1 t) - Green. rown.$

d) C/R Analog a) => C/R matin vectorial V/K

2. La el orate so urmatoorele multimi ou unt gratie vectoriale:

a)
$$Q[R](R_1+1^{\circ})$$
 roop. rom $t: Q \times Q \to Q(A) \Rightarrow Q[R] = u \ l \ spating V[K](Q_1+) grup. rom $i \in R \times Q \to Q(F)$ vectorial.$

=> C/9 & matin vect.

```
t: RxR ->R(A) => R(4 mul m.
c) R/C. (R1+) - grup com.
  "/ K ((1+,0) - worn. rom) •: C × R → R (F); rectornal.
d) g/C (g,+)-quen. rom +: g x g > g(A) =) Q/C rul grafice
                            ·: ( > Q > Q (E) vectorial.
  VIK 7 (c,+,0)-com. com)
l) 7/9 (2,+)-yrun.com +: 2x2>2(A) =>2/9 ml =n. vort.
11 11;
V/K (9,+,-vorn.com) =: 9x2->7(F)
       1 (9,+,-1-roy). com 1 =: 9x2->7(F)
3. 20 se verifie doca una mellimi vest subgrafii ?
b) 52= 5(0,010) | A, 2 E R)
  Til $ = (ano,cn); = (az,o,cz)
 dx+β= =d (anio) en)+ β(azio)ez) = (danio, dan) + (βαzio)βez) =
= (dan+ Baz, 0, den+ Baz) ESz => Sz ESR(R3)
c) 53= 5(0,6,0) (b,ce)
 Fix $17 +53(=) $ = (0,61147); 3 = (0,62142)
 dx + B=== d(c, b1, c1) + B(0, b2, c2) = (0, db1, dc7)+(0, Bb2, Bc2)=
= (0,db)+ pbz, den+ Bez) ES3 => Sz ESB(R3)
d) Sy = \((a,0,0) | a ER)
  Fil x, = (0,0) = (0,0) ) = (0,0)
  dx+ B => = d(a1,0,0)+ B(a2,0,0) = (da1,0,0)+ (Ba2,0,0) =
= 641+ Baz,0,0) ES4 => S4ESE(23)
1155= 5(0,6,0) [6 ER]
  Fil $1,7 € 55 ( x = (0,61,0); 3 = (0,62,0)
 dx+Bg)=d(0,Bbz,0)=(0,db++Bbz,0) + Ss => Ss & Sa [R3)
```

 $\begin{cases} f(s) = \int_{0}^{\infty} (o_{1}o_{1}e^{s}) | c = \int_{0}^{\infty} (o_{1}o_{1}e^{s}) |$