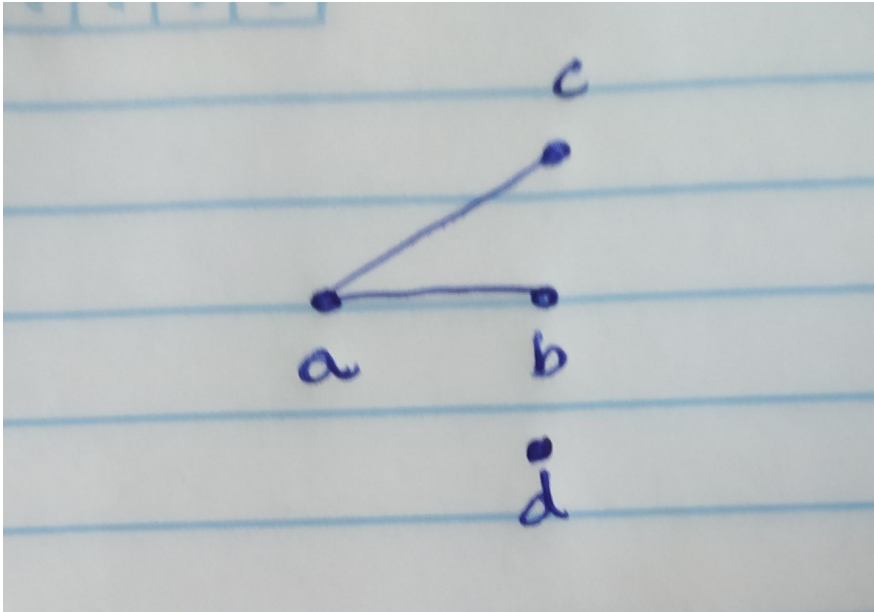# PROVA 2 - MATEMÁTICA DISCRETA

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1)
a) vários-para-vários
b) vários-para-um
c) um-para-um
d) um-para-vários

2)

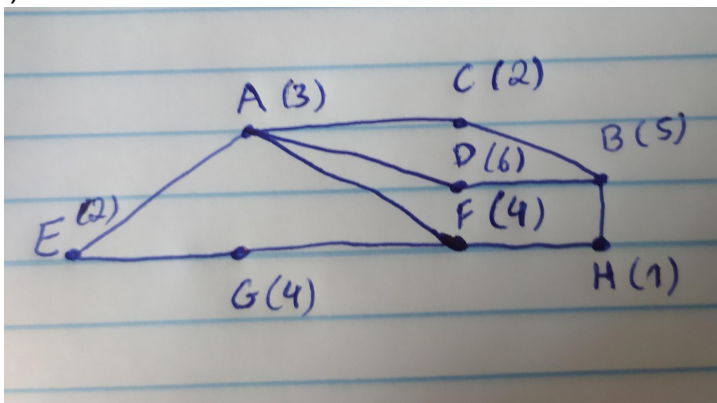3) {{1,1}, {2,2}, {3,3}, {4,4}, {5,5}, {1,3}, {3,5}, {2,4}, {4,5}}

4)
a) (1, 3), (3, 3)
b) (4, 2), (5, 3)
c) (5, 0), (2, 2)
d) (1, 1), (3, 9)

5)

6)
a) f(A) = {3, 9, 15}
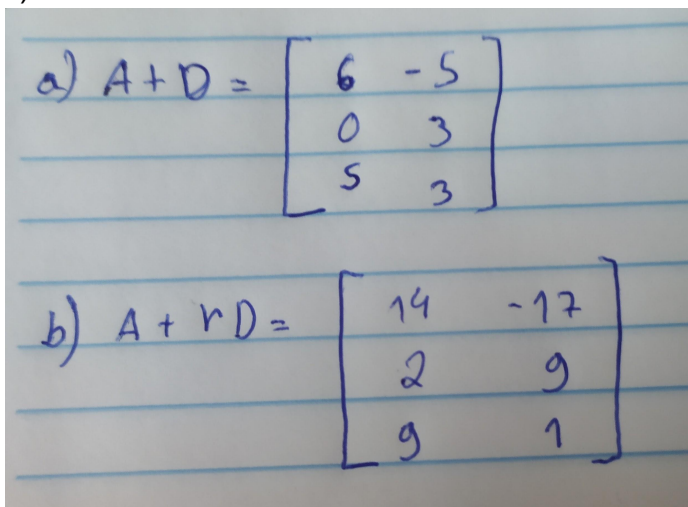b) f(A) = {x e Z / f(y) = 6y}

7)
a) 18
b) 16
c) 3x + 3
d) 3x + 1

8)
a) f(x) = x/2
b) f(x) = $\sqrt[3]{x}$
c) f(x) = 3x - 4

9)

a) $A + D = \begin{bmatrix} 6 & -5 \\ 0 & 3 \\ 5 & 3 \end{bmatrix}$

b) $A + rD = \begin{bmatrix} 14 & -17 \\ 2 & 9 \\ 9 & 1 \end{bmatrix}$