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**1a.**

D = 6 - 1= 5

Dx = 6 - 3 = 3 Dy = -6 - (-2) = -4

x = Dx/D **x = 3/5** y = Dy/D **y = -4/5**

**1b.**

D = -10 -13 = -23

Principal = 0 - 12 + 2 = -10

Secundária = 0 + 9 + 4 = 13

Dx = -22 - 1 = -23 Dy = 32 - 55= -23

Principal = 0 - 21 - 1 = -22 Principal = 6 + 12 + 14 = 32

Secundária = 0 + 3 - 2 = 1 Secundária = -4 + 63 - 4 = 55

Dz = 6 -(-17) = 23 x = Dx/D **x = -23/-23 = 1**

Principal = 0 + 4 + 2 = 6 y = Dy/D **y = -23/-23 = 1**

Secundária = 0 - 3 - 14 = -17 z = Dz/D **z = 23/-23 = -1**

**2.**

D = 61 - 31= 30

Principal = 45 + 8 + 8 = 61

Secundária = -5 - 12 + 48 = 31

Dy = 78 - 48 = 30 y = Dy/D **y = 30/30 = 1 (A)**

Principal = 108 + 2 - 32 = 78 Secundária = -12 + 48 + 12 = 48

**3.**

D = -36 -(-37) = 1

Principal = -1- 44 + 9 = - 36

Secundária = 2 - 33 - 6 = -37

Dx = -29 -(-28) = -1 Dy = -17 -(-18) = 1

Principal = -1 - 22 - 6 = -29 Principal = 2 - 22 + 3 = -17

Secundária = 1 - 33 + 4 = -28 Secundária = -4 - 11 - 3 = -18

Dz = 2 - 2 = 0 x = Dx/D x = -1/1 = -1

Principal = 1 - 8 + 9 = 2 y = Dy/D y = 1/1 = 1

Secundária = 2 - 6 + 6 = 2 z = Dz/D z = 0/1 = 0 **0-1+1 = 0 (C)**

**4.**

D = 1 -(-15) = 16

Principal = -6 + 4 + 3 = 1

Secundária = -9 - 2 - 4 = -15

Dx = -130+146=16 Dy = 26 + 54 = 80

Principal = -174 + 32 + 12 = -130 Principal = -8 + 58 - 24 = 26

Secundária = -72 - 58 - 16 = -146 Secundária = -12 + 16 - 58 = - 54

Dz = 3 - 99 = -96 x = Dx/D x = 16/16 = 1

Principal = 24 + 8 - 29 = 3 y = Dy/D y = 80/16 = 5

Secundária = 87 - 4 + 16 = 99 z = Dz/D z = -96/16 = -6

**5 + 1 - 6 = 0 (A)**

**5.**

D = 7 - 4 = 3

Principal = 4 + 3 = 7

Secundária = 4

Dx = 17 - 13 = 4 Dy = 21 - 14 = 7

Principal = 10 + 7 = 17 Principal = 6 + 15 = 21

Secundária = 10 + 3 = 13 Secundária = 14

Dz = 37 - 42 = -5 x = Dx/D x = **4/3**

Principal = 28 + 9 = 37 y = Dy/D y = **7/3** **(D)**

Secundária = 30 + 12 = 42 z = Dz/D z = **-5/3**

**6.**

. = → =

x = 3

2x + y = 7 2 \* 3 + y = 7 6 + y = 7 y = 1

-1x + 2y + 2z = -1 -1\*3 + 2\*1 + 2z = -1 -3 + 2 + 2z = -1

-1 + 2z = -1 2z = 1-1 2z = 0 **z = 0/2 = 0 (E)**

**1.**

S =

| 25 -25z = 25 **z = -1**

3y + 4 \* (-1) = 8 3y = 12 **y = 4**

2x - 1y - 3z = -5 2x -1 \* 4 - 3 \* -1 = -5 2x - 4 + 3 = -5 2x = -4 **x = -2**

**2.**

z = 22/11 z = 2 2y - 3\*2 = 0 2y = 6 y = 3

x = 2\*3 x = 6 x +2y + 3z 6 + 2\*3 + 3\*2 = **18 (B)**

**3.**

-15z = -30 z = -30/-15 **z = 2 (D)**

**4.**

(y + 2z) + y + z = 68 2y + 1,2z = 68 y = (68 - 1,2z)/2 y = 34 - 0,6z

0,2x + z = 3(34 - 0,6z) 0,2x + z = 102 - 1,8z 0,2x + z + 1,8z = 102

0,2x + 2,8z = 102

0,2 (y + 0,2z) + 2,8z = 102

0,2y + 0,04z + 2,8z = 102

0,2y + 2,84z = 102

0,2(34 - 0,6z) + 2,84z = 102 6,8 - 0,12z + 2,84z = 102 6,8 + 2,72z = 102

2,72z = 95,2 z = 95,2/2,72 z = 35

y = 34 - 0,6 \* 35 y = 34 - 21 y = 13

x + 13 + 35 = 68 x + 48 = 68 x = 20

**35 - 20 = 15 (A)**

**5.**

Alfeu = R$ 134,00; Bento = R$ 115,00; Cíntia = R$ 48,00

A = X =

34z = 680 z = 680/34 z = 20

-1y/2 + 5z = 91 -1y/2 + 5 \* 20 = 91 -1y/2 + 100 = 91 -1y/2 = -9

-1y/2 = -9 y = -9/1 / -1/2 y = 18

2x + y = 48 2x + 18 = 48 2x = 30 x = 15

T = x + y + z T = 15 + 18 + 20 **T = 53(A)**