1.1 Problem 3

a) left to right: function

right to left: function

b) left to right: relation

right to left: relation

c) left to right: function

right to left: relation

d) left to right: function

right to left: function

e) left to right: relation

right to left: function

f) left to right: relation

right to left: function

g) left to right: function

right to left: function

h) left to right: relation

right to left: relation

i) left to right: function

right to left: relation

j) left to right: function

right to left: relation

* 1. Problem 7

a)

f(x) = 3x – 4

7 = 3x – 4

11 = 3x

x = 3

b)

2(a-5) + 3 = 3 en 2(b-5) + 3 = 1

2a -10 =0

2a = 10

a = 5

2b -10 + 3 =1

2b -8 =0

b = 4

* 1. Problem 1

1. n = 3
2. def print\_xmastree(n):
3. global col
4. col = ''
5. var1 = 0
6. var2 = 0
7. while var2 < n:
8. var1 = 0
9. while var1 < n - var2:
10. col = col + ' '
11. var1 = var1 + 1
12. while var1 >= n - var2 and var1 <= n + var2:
13. col = col + '\*'
14. var1 = var1 + 1
15. while var1 <= n + var2:
16. col = col + ' '
17. var1 = var1 + 1
18. col = col + '\n'
19. var2 = var2 + 1
20. var3 = 0
21. while var3 < n:
22. col = col + ' '
23. var3 = var3 + 1
24. if var3 == n:
25. col = col + '\*'
26. var3 = var3 + 1
27. while var3 < 2 \* n:
28. col = col + ' '
29. var3 = var3 + 2
30. print(col)
31. col = ''
32. print\_xmastree(n)
33. print()

1.2 Problem 5

amount = 1

def product(\*n):

  global amount

  for i in range(len(n)):

    amount = amount \* n[i]

  return amount

product(2, 2, 2, 2, 2, 2, 2, 2)

print(amount)

MULTIPLE CHOICE QUESTIONS:

5 C

7 D

9 B

10 B