1. What is the result of the code, and why?

>>> def func(a, b=6, c=8):

print(a, b, c)

>>> func(1, 2)

1,2,8 because the default value of b is replaced with the new value.

2. What is the result of this code, and why?

>>> def func(a, b, c=5):

print(a, b, c)

>>> func(1, c=3, b=2)

1,2,3 default value of c is replaced with the new value

3. How about this code: what is its result, and why?

>>> def func(a, \*pargs):

print(a, pargs)

>>> func(1, 2, 3)

1 (2, 3) because a is the positional argument takes first value and rest all values would be part of variable length argument, result of it is stored in tuple

4. What does this code print, and why?

>>> def func(a, \*\*kargs):

print(a, kargs)

>>> func(a=1, c=3, b=2)

1 {'c': 3, 'b': 2} because a is positional argument, takes the first value and keep it separate, then rest all values would be part of variable length keyword argument, result of it is stored in dictionary.

5. What gets printed by this, and explain?

>>> def func(a, b, c=8, d=5): print(a, b, c, d)

>>> func(1, \*(5, 6))

1 5 6 5

6. what is the result of this, and explain?

>>> def func(a, b, c): a = 2; b[0] = 'x'; c['a'] = 'y'

>>> l=1; m=[1]; n={'a':0}

>>> func(l, m, n)

>>> l, m, n

**NameError**: name 'l' is not defined