1.

def cube (x):

return x \* x \* x

x = cube(3)

27

2.

def mod(a, b):

mod = a % b

return mod

x = mod(32, 3)

2

3.

def my\_func(x):

return 5 \* x – 8

x += 2

x = my\_func(2)

4

4.

def evaluate\_quad(x, a, b, c):

return a \* x \*\* 2 + b \* x + c

x = evaluate\_quad(2, 4, 3, 1)

23

5.

def repeat\_str(str, times):

return string \* times

x = repeat\_string(“hello”, 3)

hello hello hello

6.

def eval\_quad(x, a=0, b=0, c=0):

return a \* x \*\* 2 + b \* x + c

x = evaluate\_quad(10, 3)

300

7.

def repeat\_str(st=”Hi”, num):

return st \* num

x = repeat\_str(3)

Hi Hi Hi

8.

import random

def pick\_shape(n = 0)

if n!=1 and n!=2:

n = random.randint(1, 2(

s = {1: 'square', 2: 'circle'

return s[n]

x = pick\_shape()

9.

def factorial(n):

if n == 1:

return 1

return factorial(n-1) \* n

x – factorial(5)

20

10.

def sum\_to(n):

if n == 1:

return 1

return sum\_to(n – 1) + n

x = sum\_to(5)

11.

def shout(str):

return str.upper()

y = 'x'

x = shout(y)

X

12.

def shout():

x.upper()

x = “hey you!”

x = shout()

HEY YOU!

13.

def foo():

y = “get it?”

return

x = foo()

error

14.  
def greeting():

return “Good day sir.”

hello = greeting

x = hello()

error

15.

def get\_len(str):

length = len(str)

del str

return length

a = “hello”

x = get\_len(a)

5

16.

def my\_age(name, age = 35):

result =” % is % years old” % (name, age)

return result

x = my\_age(age = 22, name = “Joe”)

Joe is 22 years old

17.

def find\_it(str):

if “you in str:

return “found you”

return “keep looking”

a = “what are you looking for?”

x = find\_it(a)

found you

18.

import math

def area\_of\_cir(radius):

r = float(radius)

return math.pi \* r \*\* 2

x = area\_of\_cir(3)

9pi

19.

def triangle\_area(b = 3, h = 5):

return b \* h / 2

x = triangle\_area()

15 / 2

20.

def average(1st):

return sum(1st) / len(1st)

a = [1, 3, 5, 7, 9, 12]

x = average(a)

13 / 2