1. (8.0 points) What Would Python Display? Assume the following code has been executed already. one = 1def choose(one): if big(one): print('A') if huge(one): print('B') elif big(one) or huge(one): print('C') if big(one) or print('D'): print('E') else: print('F') big = lambda x: x >= one huge = lambda x: x > one def which(): one = 3 def this(): return one return one + 1 return this one = 4(a) (6.0 pt) Which lines are displayed by the interactive Python interpreter after evaluating choose (one + one)? Select all that apply. □ A □В \Box C \square D □ E None ☐ None of the above (b) (2.0 pt) What is displayed by the interactive Python interpreter after evaluating which()()? \bigcirc 2 \bigcirc 3 $\bigcirc 4$ \bigcirc 5 A function An error occurs before anything is displayed

Implement near_square, which takes positive integer n and non-negative integer k. It returns the largest integer less than or equal to n which is the product of two positive integers that differ by k or less. You may use solve, which is provided. def near_square(n, k): """Return the largest integer that is less than or equal to n and equals a * b for some positive integers a and b where abs (a - b) <= k

while True:

```
def solve(b, c):

"""Returns the largest x for which x * (x + b) = c

>>> solve(2, 120) # x=10 solves x * (x + 2) = 120

10.0

>>> solve(2, 121) # x=10.045... solves x * (x + 2) = 121

10.045361017187261

"""

return (b*b/4 + c) ** 0.5 - b/2
```

(a) (2.0 pt) Fill in blank (a). Select all that apply.

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□ gap
□ gap != 0
□ gap > 0
□ gap >= 0
```