



Module 11 : Number Theory II (?q=onlinecourse/course/43605)

Number Theory Exercise Part II

- **วิชชาภัทร จินดาภัก** previously submitted answers to this quiz/test on 02-Nov-2023 @ 10:11:54 and obtained **10** correct answers out of **10**.
- This test/quiz can be taken many times.
- Correct answers will NOT be revealed after submission.

Use this statement for Question 1- 8

let x, y be an integer such that $437x + 132y = 7$ *Using Euclid algo to solve x, y* 1 Find $\gcd(437, 132)$

1

2

3

4

From previous attempt

2 Find $r_0, r_1, r_2, r_3,$

132,34,8,1

132,41,9,5

437,132,41,8

437,132,41,1

From previous attempt

3 *Find q_0, q_1, q_2*

3,3,3

3,5,5

3,3,4

5,5,5

From previous attempt

4 *Find P_0, P_1, P_2*

132,41,8

3,3,5

3,10,43

1,3,16

From previous attempt

5 *Find Q_0, Q_1, Q_2*

3,7,38

1,3,13

3,3,5

132,41,8

From previous attempt

6 *Find P_3, P_4*

132,3

43,53

53,10

53,96

From previous attempt

7 Find Q_4

27

29

13

16

From previous attempt

8 After we solve x, y from $437x + 132y = 7$
we get $x = a + 132t$ and $y = b - 437t$
for all integer t find a, b

53,-16

-43,13

203,-672

116,-384

From previous attempt

9 Find smallest positive integer x such $[2]_{11} \div [7]_{11} = [x]_{11}$

2

3

5

6

From previous attempt

10 Let x be an integer such that

$$x \equiv 2 \pmod{3}$$

$$x \equiv 4 \pmod{5}$$

$$x \equiv 1 \pmod{7}$$

Find the smallest positive integer k such that $x \equiv k \pmod{105}$

From previous attempt

293

117

239

29

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◀ Previous (?)

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