

■ تمرين 04 :

1001 583 407 - (1)

$a+b \quad a.b \quad b = 583583 \quad a = 407407$

517 469 - (2)

$(E_1): x^2 - y^2 = 517 \quad (x, y)$

$(E_2): x^3 - y^3 = 469$

■ تمرين 05 :

$a = 3^5 \times 7^3 \times 11 \quad a$

$b = n.a \quad n$  - (1)

$c = m.a \quad m$  - (2)

■ تمرين 06 :

73  $A = 8 + 8^2 + 8^3 + 8^4 + \dots + 8^{888}$  - (1)

1734 - (2)

$xy = 1734 \quad x \wedge y = 17 \quad (x, y)$

$(E): (x+1)(y+2) = 2xy \quad \mathbb{N}^2 \quad (x, y)$  - (3)

■ تمرين 07 :

$N = \overline{mcd u}$

$N = (m+c+d+u) + 9(100m+10c+d) \quad (9) \quad (9)$  - (1)

$(9) \quad (9) \quad m+c+d+u$

$(25) \quad (4) \quad N \quad N = 100(10m+c) + \overline{du} \quad (25) \quad (4) \quad \overline{du}$  - (2)

$(25) \quad (4) \quad \overline{du}$

■ تمرين 01 :

3 - (1)

5 - (2)

4 - (3)

6 - (4)

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■ تمرين 02 :

$(x, y)$  - (1)

$(E_3): 9x^2 - 4y^2 = 44 \quad (E_2): x^2 - 4y^2 = 36 \quad (E_1): x^2 - y^2 = 16$

$(E_4): x^2 - 6x + 54 = y^2$

$n$  - (2)

$(3): n+1 | n^3 + 9 \quad (2): n+7 | 2n+15 \quad (1): n-2 | n+5$

$n$  - (3)

$(3): \frac{n^2+3}{n-3} \in \mathbb{N} \quad (2): \frac{3n+25}{n+3} \in \mathbb{N} \quad (1): \frac{n+17}{n-4} \in \mathbb{N}$

■ تمرين 03 :

6  $a = \overline{54x}$   $x$  - (1)

4 3  $b = \overline{53y4}$   $y$  - (2)

9  $b = \overline{xy} - \overline{yx} \quad x \geq y \quad y \quad x$  - (3)

$c = \overline{xy} + \overline{yx} \quad y \quad x$  - (4)