

:03 •

أ- $n = 2^4 \times 5^2$:
 ب- $2^6 \times 5^2 \times 7$:
 ج- $2^3 \times 5$:
 د- $20n$:
 ع- n :

:04 •

أ- a :
 ب- b :
 ج- c :
 د- d :

:05 •

أ- $n \in \mathbb{N}$:
 ب- $n-1 \in \mathbb{N}$:
 ج- $n-4 \in \mathbb{N}$:
 د- $n+8 \in \mathbb{N}$:
 هـ- $n+11 \in \mathbb{N}$:
 و- $3n+24 \in \mathbb{N}$:

(3): $25x^2 - 4y^2 = 36$ (2): $x^2 - 4y^2 = 36$ (1): $x^2 - y^2 = 16$
 (4): $9x^2 - 4y^2 = 44$

-III : 25 11 10 9 5 4 3 2 _____

:06 •

أ- $n = a_n a_{n-1} \dots a_2 a_1 a_0$:
 ب- $\{0, 2, 4, 6, 8\}$:
 ج- $\{0, 5\}$:
 د- $(9) \quad (3) \quad a_n + a_{n-1} + \dots + a_1 + a_0$:
 هـ- $(25) \quad (4) \quad a_1 a_0$:
 و- $(25) \quad (4)$:
 ز- $d = a_0 - a_1 + a_2 - a_3 + \dots + (-1)^n a_n$:
 ح- 11 :
 ط- 4 :
 ي- 3 :

-I _____

أ- $k \in \mathbb{N} \quad n = 2k$:
 ب- $k \in \mathbb{N} \quad n = 2k + 1$:
 ج- n :
 د- n :

P
I
P = {0, 2, 4, 6, 8, ... →} : **P = {2k / k ∈ ℕ}**
I = {1, 3, 5, 7, 9, ... →} : **I = {2k + 1 / k ∈ ℕ}**

-II _____

:01 •

أ- $b | a$:
 ب- $a = bq$: $\mathbb{N} \quad q$:
 ج- $b | a$:
 د- $D_{36} = \{1, 2, 3, 4, 6, 9, 12, 18, 36\}$: 36 :
 هـ- 36 :
 و- $a = 1$:
 ز- $\mathbb{N} \quad a \quad \{1, a\} \subseteq D_a$:
 ح- $150 \quad D_{150} \quad 125 \quad D_{125}$:
 ط- $c = 78 \times 7 \quad b = 5 \times 78 \quad a = 78$:
 ي- $m = ka$: $\mathbb{N} \quad k \quad a \quad m$:
 $M_a = \{0, a, 2a, 3a, 4a, \dots \rightarrow\}$: **$M_a$** :
 a : **M_a**

:02 •

أ- $250 \quad 100$:
 ب- 21 :

