

ا) $x^r - 8x^{-1}$

$(x-9)(x+3) \Rightarrow x \int_{-9}^{-3} \frac{1}{x} \Rightarrow \frac{1}{9} - \frac{1}{3}$

ب) $x^r - 11x^{-9}$

$(x-9)(x+1) \Rightarrow x \int_{-9}^{-1} \frac{1}{x} \Rightarrow \frac{1}{9} - \frac{1}{1}$

ج) $x^r - 5x^{-1}$

$(x-5)(x+5) \Rightarrow x \int_{-5}^{-1} \frac{1}{x} \Rightarrow \frac{1}{5} - \frac{1}{1}$

د) $x^r - 8x^{-1}$

$(x-8)(x+5) \Rightarrow x \int_{-8}^{-5} \frac{1}{x} \Rightarrow \frac{1}{8} - \frac{1}{5}$

ا) $(x-7)(x+5) \Rightarrow x \int_{-7}^{-5} \frac{1}{x} \Rightarrow \frac{1}{7} - \frac{1}{5}$

ب) $a+c \Rightarrow b$

$x^r - 1$

$\int_{-1}^{-\frac{1}{2}} \frac{1}{x} \Rightarrow \frac{1}{2} - \frac{1}{1}$

ج) $x^r - 3 - 3(x^r) \Rightarrow \Delta \text{ عدد صحيح}$

د) $x^r - 9 + 3(x^r) \Rightarrow \frac{-9 \pm \sqrt{81}}{2 \times 1} \Rightarrow \frac{-9 \pm 9}{2}$

$A \times B = \{(1,1), (1,2), (1,3), (2,1), (2,2), (2,3), (3,1), (3,2), (3,3)\}$

$B \times B = \{(1,1), (1,2), (1,3), (2,1), (2,2), (2,3), (3,1), (3,2), (3,3)\}$

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$m^r s m a^r$

$m^r m - r s$

$(m-r)(m+1)$

$m^r r s$

$L_{r-1} \checkmark$

$\rightarrow m^r s m a^r$

$\emptyset$

$m^r m - r s$

$m^r - 1$

L_{r-1}

$a^r s a - r$

$a^r s a + r s$

$a^r s$

$(a-1)(a-r)$

if $m s a - 1$ $a + b$ $a \neq b$

if $m s a - 1$ $a + b$ $a \neq b$ $a b s - a s$

$r k - r s$

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$$x' = y + t^2 \rightarrow |x'| = y + 2t \quad \text{مع } t = 0 \quad x' = y$$

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