

الأجوبة

(1)

عدد جذري	عدد عشري نسبي	عدد صحيح نسبي	
X	X		$\frac{3}{5}$
X	X		$-\frac{1}{2}$
X	X		0,6
X			$\frac{-7}{-9}$
X	X	X	0
X	X		-4,15
X	X	X	$\frac{-5,25}{-0,75}$
X			$\frac{22}{-7}$
X	X	X	13
X			$\frac{-1,2}{3,6}$
X			2,636363.....

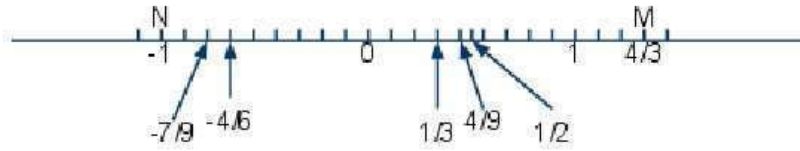
(2) - الأعداد الموجبة: $-\frac{5 \times 2,5 \times (-0,2)}{7 \times (-2) \times 1,4 \times (-6)}$ ؛ $-\left(\frac{1}{-10}\right)$ ؛ $\frac{-29}{-23}$

- الأعداد السالبة: $\frac{(-1,5) \times 4 \times (-2,3)}{-3 \times (-6) \times (-5,2)}$ ؛ $-\left(\frac{-4}{-9}\right)$ ؛ $\frac{13}{-42}$ ؛ $\frac{-0,7}{5}$

(3)

-9	$\frac{1}{15}$	$\frac{3}{5}$	$\frac{19}{2}$	$-\frac{7}{3}$	العدد a
$\frac{1}{-9}$	15	$\frac{5}{3}$	$\frac{2}{19}$	$-\frac{3}{7}$	مقلوب a
9	$-\frac{1}{15}$	$\frac{3}{-5}$	$-\frac{19}{2}$	$\frac{7}{3}$	مقابل a

(4) أ.



ب - أفضول كل من M و N : $M\left(\frac{4}{3}\right)$ ؛ $N(-1)$

$$\frac{-12}{-27} = \frac{-8}{-18} = \frac{-4}{-9} = \frac{20}{45} = \frac{4}{9} = \frac{8}{18} = \frac{12}{27} \quad (5)$$

(6)

$$\frac{0,92}{1,12} = \frac{92}{112} = \frac{4 \times 23}{4 \times 28} = \frac{23}{28}$$

$$-\frac{296}{172} = -\frac{4 \times 74}{4 \times 43} = -\frac{74}{43}$$

$$\frac{-1024}{-256} = \frac{4 \times (-256)}{-256} = 4$$

$$-\frac{36 \times (-25) \times (-48)}{-81 \times 100 \times 16} = \frac{9 \times 4 \times 25 \times 3 \times 16}{9 \times 3 \times 3 \times 4 \times 25 \times 16} = \frac{1}{3}$$

(7) - توحيد مقامي $-\frac{7}{9}$ و $\frac{5}{25}$:

$$\frac{5}{25} = \frac{1}{5} = \frac{1 \times 9}{5 \times 9} = \frac{9}{45}$$

$$-\frac{7}{9} = -\frac{7 \times 5}{9 \times 5} = -\frac{35}{45}$$

- توحيد مقامي $\frac{-1}{24}$ و $\frac{7}{-36}$:

$$\frac{7}{-36} = \frac{-7}{36} = \frac{-7 \times 2}{36 \times 2} = \frac{-14}{72}$$

$$\frac{-1}{24} = \frac{-1 \times 3}{24 \times 3} = \frac{-3}{72}$$

- توحيد مقامات $-\frac{4}{5}$ و $\frac{1}{-10}$ و $\frac{-5}{6}$:

$$\frac{1}{-10} = -\frac{1}{10} = -\frac{1 \times 3}{10 \times 3} = -\frac{3}{30}$$

$$\frac{-5}{6} = \frac{-5 \times 5}{6 \times 5} = \frac{-25}{30}$$

$$-\frac{4}{5} = -\frac{4 \times 6}{5 \times 6} = -\frac{24}{30}$$

(8)

نضع : $x = 2,636363\dots$

$$100x = 263,636363\dots \quad \text{اذن :}$$
$$100x - x = 263,636363\dots - 2,636363\dots$$

$$99x = 261$$

$$x = \frac{261}{99}$$

$$x = \frac{29}{11}$$

ومنه x عدد جذري
أي $2,636363\dots$ عدد جذري
