

1. Να λύσετε τις ανισώσεις και να φτιάξετε σχεδιάγραμμα λύσεων:

i. $8y - 12 \geq 6y + 4 + 2y - 3$

ii. $\frac{3}{4}x - \frac{3}{2} + 4 > 3x + \frac{1}{2} - \frac{5}{4}x$

iii. $3x - \frac{2x+3}{4} > \frac{x}{2}$

iv. $\frac{2x-4}{3} - 5 \leq 3x - \frac{x-1}{2}$

v. $\frac{1-4x}{2} + \frac{7}{6} > \frac{5x-2}{3} + x$

vi. $\frac{x+6}{2} + \frac{2(x+17)}{3} + \frac{5(x-10)}{6} < 2x+7$

vii. $\frac{x-12}{2} + \frac{x}{2} + \frac{3}{4} > x$

2. Να βρείτε που **συναληθεύουν** οι παρακάτω ανισώσεις.

i. $8x - 3(x-1) \leq 6x - 5$ και $\frac{2}{3}x - 1 > -3$

ii. $5x - 4 - 6x < 3 - 7x + 2$ και $3 - \frac{4x}{5} \geq -6x - 12 - \frac{3}{5}$

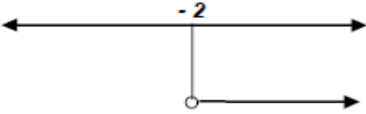
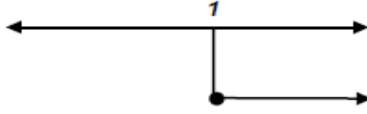
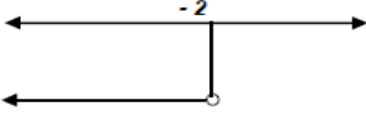
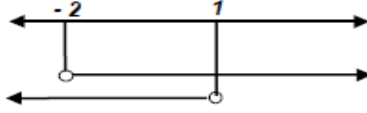
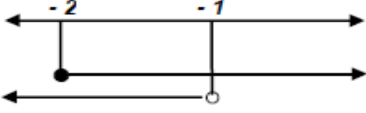
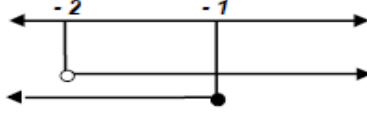
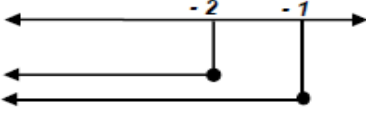
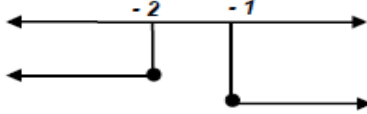
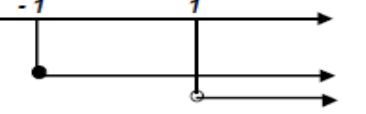
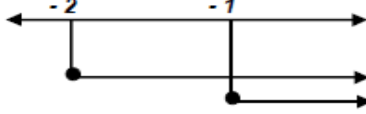
iii. $\frac{3}{4}x + \frac{7}{8} < \frac{1}{4}x + \frac{5}{2}$ και $\frac{x+1}{4} - \frac{2x-1}{3} < 2$

iv. $\frac{2x}{3} - 11 < 20 - \frac{x}{5} - \frac{x-10}{4}$ και $\frac{3x-2}{2} \leq \frac{1-5x}{3} + 5$

v. $\frac{1-x}{2} + \frac{2-x}{3} > \frac{1-x}{4}$ και $\frac{2(x+1)}{3} \leq \frac{3(x-1)}{4}$.

vi. $\frac{x+2}{3} \leq \frac{x-1}{2}$ και $1 - \frac{1-x}{5} > x$

Να γράψετε στα κουτάκια τον αριθμό με την σωστή απάντηση:

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Λύσεις Ανισοτήτων

- | | |
|-----------------------------------|----------------------|
| 1. Οι ανισότητες δεν συναληθεύουν | 6. $-2 < x < 1$ |
| 2. $-2 < x \leq -1$ | 7. $x \geq 1$ |
| 3. $x > -2$ | 8. $x < -2$ |
| 4. $x > 1$ | 9. $x \geq -1$ |
| 5. $x \leq -2$ | 10. $-2 \leq x < -1$ |