

Mathematical Inequality Set-2 By Alok Sir

Directions : There are two equations are given I and II. You solved them

(a) If $x > y$

(b) If $x \geq y$

(c) If $x < y$

(d) If $x \leq y$

(e) If $x = y$ or not relation make

1. I. $x^2 - 7x + 12 = 0$

II. $y^2 - 12y + 32 = 0$

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2. I. $5x + 2y = 31$

II. $3x + 7y = 36$

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3. I. $2x^2 + 11x + 14 = 0$

II. $4y^2 + 12y + 9 = 0$

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(e) If $x = y$ or not relation make

4. I. $x^2 - 7x + 12 = 0$

II. $y^2 + y - 12 = 0$

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5. I. $x^4 - 227 = 398$

II. $y^2 + 321 = 346$

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(e) If $x = y$ or not relation make

6. I. $x^2 - 8x + 15 = 0$

II. $y^2 - 3y + 2 = 0$

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(d) If $x \leq y$

(e) If $x = y$ or not relation make

7. I. $x - \sqrt{121} = 0$

II. $y = \sqrt{121} = 0$

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(c) If $x < y$

(d) If $x \leq y$

(e) If $x = y$ or not relation make

9. I. $3x^2 + 8x + 4 = 0$

II. $4y^2 - 19y + 12 = 0$

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(d) If $x \leq y$

(e) If $x = y$ or not relation make

9. I. $x^2 - 365 = 364$

II. $y - \sqrt{324} = \sqrt{81}$

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(c) If $x < y$

(d) If $x \leq y$

(e) If $x = y$ or not relation make

10. I. $225x^2 - 4 = 0$

II. $\sqrt{225y} + 2 = 0$

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(d) If $x \leq y$

(e) If $x = y$ or not relation make

11. I. $x^3 - 878 = 453$

II. $y^2 - 82 = 39$

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(c) If $x < y$

(d) If $x \leq y$

(e) If $x = y$ or not relation make

12. I. $9x - 15.45 = 54.55 + 4x$

II. $\sqrt{y + 155} - \sqrt{36} = \sqrt{49}$

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Directions : In the following three equations numbered I, I and III are given. You have to solve all the equations either together or 2 separately, or two together and one separately, or by any other method and :

Given Answer

(a) If $x < y = z$

(b) If $x \leq y < z$

(c) If $x < y < z$

(d) If $x = y > z$

(e) If $x = y = z$ or if none of the above relationship is established

13. I. $7x + 6y + 4z = 122$

II. $4x + 5y + 3z = 88$

III. $9x + 2y + z = 78$

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Given Answer

(a) If $x < y = z$

(b) If $x \leq y < z$

(c) If $x < y < z$

(d) If $x = y > z$

(e) If $x = y = z$ or if none of the above relationship is established

14. I. $x = \sqrt{(36)^{1/2} \times (1296)^{1/4}}$ II. $2y + 3z = 33$
III. $6x + 5z = 71$

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Given Answer

(a) If $x < y = z$

(b) If $x \leq y < z$

(c) If $x < y < z$

(d) If $x = y > z$

(e) If $x = y = z$ or if none of the above relationship is established

15. I. $(x + y)^3 = 1331$

II. $x - y + z = 0$

III. $xy = 28$

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Directions : In each of these questions two equations I and II are given. You have to solve both the equations and

Give answer

(a) If $a < b$

(b) If $a \leq b$

(c) If relationship between a and b cannot be established

(d) If $a \geq b$

(e) If $a \leq b$

16. I. $6a^2 - 25a + 25 = 0$ II. $15b^2 - 16b + 4 = 0$

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Directions : In each of these questions two equations I and II are given. You have to solve both the equations and

Give answer

(a) If $a < b$

(b) If $a \leq b$

(c) If relationship between a and b cannot be established

(d) If $a \geq b$

(e) If $a \leq b$

17. I. $2a^2 + 3a + 1 = 0$

II. $12b^2 + 7b + 1 = 0$

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