

1. Resuelve la ecuación:

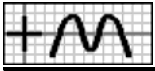
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|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 1. $x-2+x = x-2$ | 2. $x+1-3x+1 = 5$ | 3. $3-x+2-4 = x$ | 4. $x-1+1 = 2-2x$ | 5. $2-2-x = 2x-1$ | 6. $1-3x-2+4 = x$ |
| 7. $3-2x-4 = x-2$ | 8. $2+2x+1 = x+1$ | 9. $2x+x+1 = 5-2$ | 10. $2x-2-4 = x-3$ | 11. $x-1-2x-1 = 2x$ | 12. $4-2x-3 = 3-x$ |
| 13. $x+1+2x+3 = 3$ | 14. $x-2-3x = 2+x$ | 15. $x-3+6 = 2+2x$ | 16. $2x-x+2 = 2+2$ | 17. $x+x+3-3x = 3$ | 18. $1-3x+2x-1 = 2$ |
| 19. $2x-1-3x = 1+2$ | 20. $1-2x+1 = 3-3x$ | 21. $2x-1-3x+1 = 0$ | 22. $2x-1-4 = 3x-2$ | 23. $2-1-2 = 3x-2x$ | 24. $3x+3-3x = 1-x$ |
| 25. $2x-2x-2 = 1+x$ | 26. $3x-3x-x = 1+3$ | 27. $2-3x-3 = 2x-x$ | 28. $7-2-3x = 3-2x$ | 29. $x-3x-2 = 2x-3$ | 30. $2x-3x+2 = 3-2$ |
| 31. $2x-3x+3 = 3-3$ | 32. $3x+2-3x = x+2$ | 33. $3x+2+3 = 2x+3$ | 34. $5x-1-2x = 2x-1$ | 35. $3x-1-2x-3 = 4x$ | 36. $2x-3x-1 = 2+3x$ |
| 37. $3-2x+1 = 2x-5x$ | 38. $2-3x+3x-2x = 1$ | 39. $4x-2x-3x = 2-3$ | 40. $3x+3x+1 = 5x-3$ | 41. $3-2+5x = 3x-2x$ | 42. $2+2x+2 = 2x-3x$ |
| 43. $4-2-x = 2-x$ | 44. $1-x+2 = 3-x$ | 45. $4x-3x-1 = x-1$ | 46. $2-3-x = 1-x$ | 47. $2-2+5 = x-x$ | 48. $3x-x-2-2x = 1$ |

2. Resuelve la ecuación:

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|---------------------------|---------------------------|---------------------------|----------------------------|
| 1. $3x+3+1 = 2(x+2)$ | 2. $3-11 = 3(x-2)-2x$ | 3. $x-3-3(x-3) = 6-x$ | 4. $3x-2(2x+3) = 3-8$ |
| 5. $3(x-3)-x-3+14 = x$ | 6. $x-2(x-3)-3 = 2-3x$ | 7. $3(2x+3)+1-12 = 3x$ | 8. $3x-3(x-3)+x = 8-2$ |
| 9. $1-2x+7x = 3(2x+1)$ | 10. $2(2x+1)-2x-3 = 4x$ | 11. $3+x+2 = 2x-2(x-3)$ | 12. $3(x+3)-3x-6 = x+2$ |
| 13. $2x-2(x+3)+2+3 = x$ | 14. $1-2(x+1)+8x-1 = 3x$ | 15. $x-3(2x-1)-3 = 1-6x$ | 16. $x-8x-6 = 1-3(2x+1)$ |
| 17. $9-1-x = 3x-3(2x-3)$ | 18. $2-3x = 3(3x+1)-11x$ | 19. $x-3(3x+1)+5x = 1-6$ | 20. $9-3x-3 = x-3(2x-1)$ |
| 21. $6x-3-2(2x+1)+1 = x$ | 22. $1-3x+7x-6 = 3(x-3)$ | 23. $3x-2+2 = 2(x-1)+2x$ | 24. $3(3x-3)-5x+3 = x-2$ |
| 25. $3(3x+2)-x-9x = 6-3$ | 26. $3(3x-2)+3-7x = x-2$ | 27. $2(2x+3)-2x-7 = x-3$ | 28. $1-3x+9x+2 = 2(x+2)$ |
| 29. $3(x-2)+3+7 = 5x-3x$ | 30. $3(3x-1)+x-11x = 3-7$ | 31. $3(3x+1)-11x+2 = 2-x$ | 32. $2+8x+2 = 2(3x+3)+x$ |
| 33. $3(3x+2)-11x-4 = 2-x$ | 34. $2x-1-7 = 3(3x-3)-8x$ | 35. $3-3x-2 = 4x-3(2x-1)$ | 36. $2x-3(3x-1)-2 = 2-8x$ |
| 37. $3x+1+2x-4 = 2(2x-1)$ | 38. $4-3x-1 = 4x-3(2x-2)$ | 39. $2(x+3)+2x-11 = 2x-2$ | 40. $2(3x+2)-2x-3 = 3x-1$ |
| 41. $2(2x+3)-7x-5 = 1-2x$ | 42. $3(2x-1)-2+3 = 9x-2x$ | 43. $2(3x-1)+2x-3 = 9x-8$ | 44. $3x-1+2x = 3(2x+2)-8$ |
| 45. $3(3x-1)-3+9 = 3x+8x$ | 46. $3x-2(3x-2)+2 = 7-4x$ | 47. $2-3x+4x-6 = 2(2x-3)$ | 48. $8x-3-2(3x+3) = 3x-8$ |
| 49. $2(2x+3)+2-5x = 7-2x$ | 50. $2-3x+8x = 2(3x+2)-3$ | 51. $3x-2(2x+3)+2x+6 = 2$ | 52. $3(3x-1)+2x-1 = 10x-3$ |
| 53. $3-1-3x = 2(3x+1)-9x$ | 54. $7-2x-1 = 4x-2(3x-3)$ | 55. $8x-3(2x-3)-2x = 1+8$ | 56. $3(3x-3)-3x-1+10 = 6x$ |
| 57. $x-1-5x = 8-2(2x+3)$ | 58. $1-2x+1 = 2(3x-1)-8x$ | 59. $2x-2-8x = 8-2(3x+3)$ | 60. $10x-x+13 = 3(3x+3)-3$ |

3. Resuelve la ecuación:

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|-------------------------------|-------------------------------|--------------------------------|--------------------------------|
| 1. $8x-3(2x-1) = 3(x-1)+5$ | 2. $6-2(3x+1) = 3(x+1)-8x$ | 3. $1-5x = 2(x-3)-3(2x-3)$ | 4. $8x-3(x-1)-2 = 2(2x+2)$ |
| 5. $3(3x+2)-3(3x-1)-7 = x$ | 6. $2(2x+1)-2(x-3)-4x = 9$ | 7. $3(2x+2)-2(3x-1)-x = 6$ | 8. $8x-3(x+1)-2(3x-3) = 4$ |
| 9. $3(3x+3)-5x-5 = 3(x+1)$ | 10. $2(2x+2)-3x = 2(x-1)+5$ | 11. $3(x+3)-2(3x-2)+x = 12$ | 12. $2(3x+2)-3(3x-3)-9 = 0$ |
| 13. $3(x+3)-8x = 9-2(2x+2)$ | 14. $6-10x = 2(x+1)-3(3x-1)$ | 15. $1-3(3x-2) = 3(x+2)-10x$ | 16. $2-5x = 2(2x+1)-2(3x-1)$ |
| 17. $3(3x+1)-2(x-3)-13 = 4x$ | 18. $2(x+3)+2(x+1)-5x-7 = 0$ | 19. $3(x+1)+2x-10 = 2(3x-3)$ | 20. $3(2x+3)-3(x-2)-18 = 2x$ |
| 21. $3(2x+3)-5x-12 = 2(x-2)$ | 22. $2(3x+2)-2x-13 = 3(x-3)$ | 23. $2(2x+3)-3(x-3) = 2x+14$ | 24. $3(x-2)+6x+12 = 2(3x+2)$ |
| 25. $3(x+1)-10x = 11-3(2x+3)$ | 26. $3(2x-2)-2(x-3)-5x-1 = 0$ | 27. $2(3x+1)-3 = 15x-3(2x+1)$ | 28. $12x-2(2x-2)-3(3x-1) = 6$ |
| 29. $3(3x+1)-13x = 13-3(x+3)$ | 30. $2(3x+2)+2x+7 = 3(3x+3)$ | 31. $2(3x+1)-18x = 6-3(3x+1)$ | 32. $3(3x+1)+3(3x+1)-5 = 17x$ |
| 33. $11-4x = 3(2x+2)-3(3x-2)$ | 34. $3(3x+2)+2(3x-1)-18x = 3$ | 35. $9-3(3x+1) = 3(2x+2)-14x$ | 36. $2x+11 = 3(3x+2)-3(2x-3)$ |
| 37. $17-2(3x+3) = 6x-3(3x-3)$ | 38. $2x-12 = 3(3x-2)-3(2x+2)$ | 39. $3(3x+3)-2(3x-3)-6x = 19$ | 40. $3(2x+2)+3(2x+1)-13x = 9$ |
| 41. $12x-7 = 2(3x-2)+3(2x-1)$ | 42. $3(2x+1)-10x = 7-2(2x+2)$ | 43. $3(x+2)-3(3x-3)+6x-15 = 0$ | 44. $3(3x-2)-2(x+3)-7x+12 = 0$ |
| 45. $3(3x-2)-3(x-3)-6x = 5$ | 46. $3(2x+2)-3x-9 = 3(x-3)$ | 47. $3(3x+3)-2(2x+3)-5x = 8$ | 48. $15x-3(3x+3) = 2(3x+1)-6$ |



4. Resuelve la ecuación:

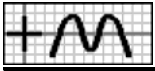
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|-------------------------------------|--------------------------------------|---------------------------------------|
| 1. $2x(2x+1)+x(3x-1)+x = 7x^2-1$ | 2. $3x(x-3)-3x(2x-3)+x = 1-3x^2$ | 3. $2x^2-x(2x-2)+10 = 3(x+2)+2x$ |
| 4. $2(x-2)+6x^2+3 = 3x(2x+1)-3x$ | 5. $2x^2-3(3x-2)-x(2x+1)+7x = 4$ | 6. $2x(2x-3)-3(x+2)+7x = 4x^2-7$ |
| 7. $3x-2x(x-1)-2 = 2x^2-2x(2x-3)$ | 8. $6x^2-2x(2x-2)-3 = 2x(x-1)+2x$ | 9. $3x(2x-3)-3x(3x-3)-4x = 1-3x^2$ |
| 10. $12x^2-x(3x-1)+2 = 3x(3x+2)-6x$ | 11. $3x(2x-2)+2x+1 = 10x^2-2x(2x+1)$ | 12. $14x-2x(2x+2)-1 = 3x(3x+3)-13x^2$ |

5. Resuelve la ecuación:

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|---|---|---|---|---|
| 1. $\frac{3}{4} - \frac{x-2}{6} = 1$ | 2. $\frac{1}{6} + \frac{x+2}{3} = 1$ | 3. $\frac{x}{2} - \frac{2x-3}{3} = 1$ | 4. $\frac{x+6}{10} + \frac{x-1}{2} = x$ | 5. $x - \frac{20x}{27} = \frac{x-1}{9}$ |
| 6. $\frac{x+2}{10} + \frac{x+2}{5} = 1$ | 7. $\frac{x+3}{3} + \frac{4x-1}{18} = 1$ | 8. $\frac{x+1}{6} + \frac{2x-1}{2} = x$ | 9. $\frac{5x+5}{12} - \frac{x-2}{3} = 1$ | 10. $x - \frac{x+1}{2} = \frac{4x-5}{12}$ |
| 11. $x - \frac{3x+1}{12} = \frac{19x}{24}$ | 12. $\frac{3x-1}{6} + \frac{x+2}{3} = x$ | 13. $\frac{8x-9}{20} + \frac{x+1}{2} = x$ | 14. $\frac{5x+6}{16} + \frac{x-1}{2} = x$ | 15. $\frac{11x-1}{16} + \frac{x+1}{4} = x$ |
| 16. $\frac{x-3}{2} + 2 = \frac{3x+4}{8}$ | 17. $\frac{12x+3}{20} - \frac{x-2}{2} = 1$ | 18. $x - \frac{x+1}{5} = \frac{17x-3}{20}$ | 19. $\frac{9x+10}{24} + \frac{x-1}{2} = x$ | 20. $\frac{4x+1}{6} + \frac{2x-1}{3} = x$ |
| 21. $x - \frac{x+1}{8} = \frac{20x-3}{24}$ | 22. $1+x - \frac{3x+1}{4} = \frac{7}{8}$ | 23. $\frac{23x-6}{30} + \frac{x+1}{5} = x$ | 24. $\frac{4x+3}{10} + \frac{2x-1}{5} = x$ | 25. $\frac{7x-5}{20} + \frac{3x+1}{5} = x$ |
| 26. $\frac{2x+3}{3} - \frac{20x-3}{27} = 1$ | 27. $x - \frac{11x+9}{16} + 1 = \frac{x+1}{2}$ | 28. $x - \frac{3x-8}{27} - \frac{3x-2}{3} = 1$ | 29. $x - \frac{9x-8}{16} - 1 = \frac{3x-2}{8}$ | 30. $2 - \frac{x+2}{2} = \frac{2x+11}{12} - x$ |
| 31. $x - \frac{3x-1}{4} - \frac{2x+3}{12} = 0$ | 32. $\frac{2x+3}{2} - 2 = \frac{20x-11}{16}$ | 33. $\frac{21x+7}{20} - 1 = \frac{2x-1}{2}$ | 34. $\frac{x-3}{6} + 1 = x - \frac{9x-5}{12}$ | 35. $x - \frac{17x+2}{27} = \frac{3x-2}{9}$ |
| 36. $x - \frac{2x-2}{3} - \frac{4x-1}{6} = 1$ | 37. $x - \frac{2x-3}{8} - \frac{8x-7}{16} = 1$ | 38. $2x - \frac{3x-3}{2} - 2 = \frac{x-1}{3}$ | 39. $1 - \frac{14x+5}{20} = \frac{x+3}{4} - x$ | 40. $x - \frac{4x-7}{18} = \frac{2x-2}{3} + 1$ |
| 41. $x - \frac{x-1}{4} - \frac{17-18}{24} = 1$ | 42. $\frac{1-x}{2} - \frac{4x-5}{6} - 1+x = 0$ | 43. $\frac{7x+9}{16} + \frac{x+1}{2} - x - 1 = 0$ | 44. $x - \frac{3x-3}{8} - \frac{11x-9}{16} = 1$ | 45. $2x - \frac{3x-1}{2} - \frac{3x-1}{5} = 1$ |
| 46. $x - \frac{3x+1}{4} - \frac{4x-11}{12} = 1$ | 47. $x - \frac{3x-2}{6} - \frac{7x-10}{15} = 1$ | 48. $\frac{6x+11}{20} - x = 1 - \frac{3x+2}{4}$ | 49. $\frac{10x+1}{8} - \frac{3x-3}{2} - 2 = 0$ | 50. $x - \frac{3x-1}{4} - \frac{4x-11}{12} = 1$ |

6. Resuelve la ecuación:

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|--------------------------|--------------------------|---------------------------|---------------------------|---------------------------|
| 1. $1+x-x^2 = x$ | 2. $1-2x = 3x^2$ | 3. $3-x = 2+2x^2$ | 4. $1-x-x^2 = x+1$ | 5. $2-x+x^2 = 3-x$ |
| 6. $1-2x = x^2-2x$ | 7. $2x-1+2 = 3x^2$ | 8. $x+4x+4 = -x^2$ | 9. $2-3x-4x^2 = 2$ | 10. $x-2-3x^2 = 8x$ |
| 11. $6x-2 = 3x^2+x$ | 12. $1-3x-2 = x^2-x$ | 13. $4x^2-1+x-8 = x$ | 14. $x-9x^2-x = 3-7$ | 15. $2-3x^2-2-x = 0$ |
| 16. $3+x^2-4x+1 = x$ | 17. $x+3-x^2 = 8-3x$ | 18. $15x-3 = x+8x^2$ | 19. $2x^2-2x+1 = 1-x$ | 20. $2x+6 = 2x^2+3x$ |
| 21. $4x^2-8x+1 = x-1$ | 22. $19-x-3 = 9x^2-x$ | 23. $2-3x = 1+x-4x^2$ | 24. $1-x^2-2x = 2-2x$ | 25. $2x-x^2-2 = 2x-1$ |
| 26. $x^2+2x-2 = 2x-1$ | 27. $1+6x^2-2x = 3-x$ | 28. $4x^2-1+x = 6x-2$ | 29. $3-12x^2 = 2-3x^2$ | 30. $2x-2-4x^2 = x-5$ |
| 31. $5-4x = 2x^2+2+x$ | 32. $3-2x-x^2 = 6-6x$ | 33. $2x+2+2x^2 = 1-x$ | 34. $2+x^2-2 = 2x-3x$ | 35. $2-6x = 4-3x^2-x$ |
| 36. $x^2-3x = 2x^2-4x$ | 37. $3x^2+2x = 4x^2-x$ | 38. $x^2-2x = 2x^2-4x$ | 39. $x-2x^2-3 = 1+10x$ | 40. $2x^2-x = 2-2x+x^2$ |
| 41. $3x-x^2 = x^2-3+2x$ | 42. $x-4x^2 = 9-3x^2+x$ | 43. $2x+3 = 1+2x^2+5x$ | 44. $5-2x^2 = 1-11x+x^2$ | 45. $2x^2+x-2 = 3x^2-x$ |
| 46. $3x+3-x^2 = 20-5x$ | 47. $3x^2-3x = 4x^2-2x$ | 48. $2x^2+4-x = 6x-x^2$ | 49. $3x-2x^2 = 2x^2+6x$ | 50. $4x-4x^2-2 = 1-3x^2$ |
| 51. $3x-5x^2+1 = 3x-x^2$ | 52. $3x^2-3x+1 = 2x^2-x$ | 53. $2+17x^2+8x = x^2+1$ | 54. $2x^2-x = 4-6x+3x^2$ | 55. $2x^2+2x+3 = x+4x^2$ |
| 56. $3+12x = 2x-3x^2-5$ | 57. $3x^2-3x-4 = x+4x^2$ | 58. $24x-x^2-8 = 15x^2+1$ | 59. $-x-2x^2 = 6x+3+2x^2$ | 60. $14x-3x^2-9 = x^2+2x$ |



7. Resuelve la ecuación:

1. $\frac{x^2-1}{3} + 1 = \frac{17x^2}{24}$
2. $\frac{19x+1}{20} - \frac{x^2-x}{10} = x$
3. $3 - \frac{2x^2+3}{3} = \frac{x^2+8}{12}$
4. $\frac{8x^2+x}{27} = x - \frac{3x-x^2}{3}$
5. $\frac{x^2+2}{6} - \frac{x^2+x-12}{18} = 1$
6. $\frac{5-2x}{8} - \frac{2x^2+3x}{2} = 1$
7. $2x - \frac{2x^2+x}{2} - \frac{x-2}{3} = 1$
8. $\frac{3x^2+3x}{2} - \frac{11x^2}{6} = 2x$
9. $\frac{7x^2+25}{16} + \frac{x^2-2}{2} = x^2$
10. $\frac{4x+1}{16} + x^2 = \frac{3x^2+2x}{4}$
11. $\frac{6x^2-x-1}{10} + \frac{x^2-x}{4} = x^2$
12. $\frac{6x^2-5x}{12} + \frac{x^2+3x}{6} = x^2$
13. $x^2 - \frac{x^2+x}{2} - \frac{15x-16}{18} = 0$
14. $\frac{x^2+x}{5} - \frac{x^2-6x+8}{10} = x-1$
15. $\frac{7x^2-2x-1}{12} - \frac{x^2+x}{3} = x^2$
16. $\frac{2x^2+3x}{4} - \frac{x^2-1}{10} = x^2+x$
17. $\frac{x^2+1}{3} - \frac{10x^2-3x+2}{18} = x$
18. $3-x = \frac{3x^2-2x}{3} - \frac{7x^2-1}{6}$
19. $\frac{22x^2-6x+9}{18} - \frac{x^2-x}{3} = 1$
20. $\frac{x^2-2x}{10} - \frac{5x^2+x-24}{30} = 1$
21. $\frac{x^2-3}{3} - \frac{11x^2-2x-14}{30} = 1$
22. $\frac{x^2+2x}{8} - \frac{6x^2-7x+1}{16} = x$
23. $\frac{7x^2-x-3}{12} + \frac{x^2-2x}{4} = x^2$
24. $\frac{x^2+2x}{3} - \frac{7x^2-2x+4}{18} = x$
25. $x^2 - \frac{x^2-x}{3} - \frac{6x^2-11x}{12} = x$
26. $\frac{4x^2-11x+2}{20} - \frac{2x^2-3}{4} = 1$
27. $\frac{x^2-x}{2} - \frac{13x^2-2x}{8} - 2x = 1$
28. $\frac{x^2-4x-1}{8} - \frac{x^2+3x}{4} + x = 0$

— Soluciones —

- 1.1. 0 1.2. $\frac{-3}{2}$ 1.3. $\frac{1}{2}$ 1.4. $\frac{2}{3}$ 1.5. $\frac{1}{3}$ 1.6. $\frac{3}{4}$ 1.7. $\frac{1}{3}$ 1.8. -2 1.9. $\frac{2}{3}$ 1.10. 3 1.11. $\frac{-2}{3}$ 1.12. -2 1.13. $\frac{-1}{3}$ 1.14. $\frac{-4}{3}$ 1.15. 1 1.16. 2 1.17. 0
 1.18. -2 1.19. -4 1.20. 1 1.21. 0 1.22. -3 1.23. -1 1.24. -2 1.25. -3 1.26. -4 1.27. $\frac{-1}{4}$ 1.28. 2 1.29. $\frac{1}{4}$ 1.30. 1 1.31. 3 1.32. 0 1.33. -2
 1.34. 0 1.35. $\frac{-4}{3}$ 1.36. $\frac{-3}{4}$ 1.37. -4 1.38. $\frac{1}{2}$ 1.39. 1 1.40. -4 1.41. $\frac{-1}{4}$ 1.42. $\frac{-4}{3}$ 1.43. c.i. 1.44. c.i. 1.45. c.i. 1.46. inc 1.47. inc 1.48. inc 2.1.
 0 2.2. -2 2.3. 0 2.4. -1 2.5. -2 2.6. $\frac{-1}{2}$ 2.7. $\frac{2}{3}$ 2.8. -3 2.9. -2 2.10. $\frac{-1}{2}$ 2.11. 1 2.12. 1 2.13. -1 2.14. $\frac{2}{3}$ 2.15. 1 2.16. -4 2.17. $\frac{1}{2}$ 2.18. -1
 2.19. $\frac{2}{3}$ 2.20. $\frac{-3}{2}$ 2.21. 4 2.22. -4 2.23. 2 2.24. $\frac{4}{3}$ 2.25. 3 2.26. 1 2.27. -2 2.28. $\frac{1}{4}$ 2.29. -4 2.30. 1 2.31. 3 2.32. 2 2.33. 0 2.34. -1 2.35.
 -2 2.36. 1 2.37. 1 2.38. -3 2.39. $\frac{3}{2}$ 2.40. -2 2.41. 0 2.42. -2 2.43. 3 2.44. 1 2.45. $\frac{3}{2}$ 2.46. 1 2.47. $\frac{2}{3}$ 2.48. -1 2.49. -1 2.50. 1 2.51. 2
 2.52. 1 2.53. c.i. 2.54. c.i. 2.55. c.i. 2.56. c.i. 2.57. inc 2.58. inc 2.59. inc 2.60. inc 3.1. 1 3.2. 1 3.3. -2 3.4. 3 3.5. 2 3.6. $\frac{-1}{2}$ 3.7. 2 3.8. -1
 3.9. -1 3.10. 1 3.11. $\frac{1}{2}$ 3.12. $\frac{4}{3}$ 3.13. 4 3.14. $\frac{1}{3}$ 3.15. $\frac{1}{2}$ 3.16. $\frac{-2}{3}$ 3.17. $\frac{4}{3}$ 3.18. 1 3.19. -1 3.20. 3 3.21. 1 3.22. 0 3.23. 1 3.24. $\frac{-2}{3}$ 3.25. 1
 3.26. -1 3.27. $\frac{2}{3}$ 3.28. 1 3.29. -1 3.30. 2 3.31. $\frac{-1}{3}$ 3.32. -1 3.33. $\frac{-1}{4}$ 3.34. $\frac{1}{3}$ 3.35. 0 3.36. -4 3.37. $\frac{2}{3}$ 3.38. 0 3.39. $\frac{-4}{3}$ 3.40. 0 3.41. c.i.
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