

1. Resuelve la ecuación:

[Comp.det.]

- $2(x-1)-6 = 3(x-3)$
- $2x-2(x-3)-2x = 3$
- $-13(x-2)-x = 4-6x$
- $9-x-1 = x-3(2x-3)$
- $x+2+3x-7 = 3(x-1)$
- $2(3x-2)-x+3 = x-2$
- $6x-1-3(2x-1)-1 = x$
- $2(x-1)-1-2 = 7x-2x$
- $2(x-1)-2(x-3)-x = 8$
- $6-2-6x = x-3(2x-1)$
- $x-2(3x-2)-1 = 3x-4$
- $14-x-3(x+3) = 3-3x$
- $x-3+12 = 3x-3(x-3)$
- $2(3x+1)+2-4x-8 = x$
- $2x-2-3x-3 = 3(x-2)$
- $3-x-2(2x-2) = 6-6x$
- $1-3(3x-1)+11x = 3-x$
- $2(x+2)-5x-2 = 2-2x$
- $5x-3x+9 = 3(x+1)+3$
- $6x-1-3x-1 = 2(2x-2)$
- $1-3x-8 = 2(2x-3)-6x$
- $x-3(3x+3)+14 = 1-5x$
- $2x-3-4x = 2-2(3x+1)$
- $x+2+11x = 3(3x+3)-6$
- $2x+8x-6 = 3(3x-1)-3$
- $3(3x+2)-x-10x-5 = 2$
- $13-3x-3(x+3) = 3-3x$
- $3(x+3)-3x-10 = 2+2x$
- $29. 3x-3(3x-3)-6 = 2-7x$
- $2(2x+3)-4x-1 = 3x+3$
- $2x-2(2x+3)+6 = 1-3x$
- $2(2x-3)+2x+4 = 5x-1$
- $33. 7x-2(3x-2)-3x-3 = 2$
- $3(x+3)+2x-10 = 3x-2$
- $2x-1+8x+8 = 2(3x+3)$
- $4-3x-3(3x+1) = 1-11x$
- $37. 6x-2(2x+3)+9 = 3x+1$
- $x-3(3x-3)-1+10x = 11$
- $2(3x+3)+2x-7x-5 = 2$
- $1-3x-1 = 2(3x-2)-12x$
- $41. 3x+1-2 = 10x-3(2x+1)$
- $3(3x+2)+3x-11x = 8-1$
- $2(x-1)-2(2x-3) = 2x+1$
- $11x-3(3x-3)-6 = 3x+2$
- $45. 3+10x-10 = 3(2x-3)+x$
- $1-3x+6 = 3(3x+3)-13x$
- $7x-2-3(2x+3) = 2x-13$
- $3(3x+2)+3x-5 = 10x-2$
- $49. 2(x+2)+2(2x+2)-4 = 5x$
- $3(x+1)-6 = 12x-2(3x+1)$
- $5x-3(2x-3) = 2(x-1)+15$
- $3(x+1)+3(2x-2) = 10x-3$
- $53. 2x-2(3x-2) = 14-3(x+3)$
- $3(2x+2)-3(3x+2) = 1-2x$
- $6x-3(x+1)-2(2x+3)+8 = 0$
- $2(3x+1)+8 = 15x-2(3x-3)$
- $57. 3(2x+3)-14x = 4-2(2x-2)$
- $3(3x+2)-2(3x-3)-4x = 10$
- $2(2x+2)+3(2x+1)-4 = 12x$
- $14x-3(3x+2) = 3(2x+3)-14$

2. Resuelve la ecuación:

[Comp.ind.]

- $1-2x = 3-2(x+1)$
- $2-x+1 = 3(x+1)-4x$
- $3(x-1)+1+2 = 2x+x$
- $3(3x+1)-3 = 10x-x$
- $3(x+3)-2x-7 = 2+x$
- $2(2x-1)-x+1 = 3x-1$
- $2(3x-1)+3-5x-1 = x$
- $2(3x-3)-1+7 = 7x-x$
- $2x-3-4x = 1-2(x+2)$
- $2(3x-1)-x+5 = 3+5x$
- $5x-2(x-3)-3x-3 = 3$
- $x+5x+5 = 2(3x+1)+3$
- $3(x+2)+2x-3 = 3+5x$
- $1-2x+11x-4 = 3(3x-1)$
- $2(2x-3)+3x-2+8 = 7x$
- $5x-2(x-3)-3(x-2) = 12$
- $2-2(3x-1) = 2(x+2)-8x$
- $3(2x-2)-3(x-3) = 3x+3$
- $2(3x+2)+5 = 3(x+3)+3x$
- $2(3x+3)-2(x-2)-10 = 4x$

3. Resuelve la ecuación:

[Incomp.]

- $2(x-1)-2x = 1$
- $2(x+3)+2-4 = 2x$
- $3(x+1)-2-4x = 7-x$
- $2-3(x+2)+9 = x-4x$
- $2(3x-3)+1 = 9x-3x$
- $4x-2(x-1)-2x-7 = 2$
- $3(x+1)+2+1 = 5x-2x$
- $4-2(x+1)-3x = 3-5x$
- $2(3x+3)-7x-5 = 3-x$
- $2(3x-1)+2x+3 = 8x-1$
- $1-3(3x-2)+6x = 6-3x$
- $3(3x+3)-3(3x-1) = 18$
- $2(3x+1)-3x-3 = 3x+2$
- $3(2x-1)+3x+5 = 9x-3$
- $9x-3x-2 = 2(3x-3)+2$
- $3(2x+3)-2x-11 = 3+4x$
- $17. 2(3x-3)-3(x-3) = 3x+8$
- $10x-2(3x+2) = 2(2x+1)$
- $3(2x+3)-4x = 2(x+3)+8$
- $3(x-1)-3(2x-3) = 12-3x$

4. Resuelve la ecuación:

[Comp.det.]

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

$$33. x - \frac{3x-5}{12} - \frac{2(x-1)}{3} = 1$$

$$34. x - \frac{3x-5}{6} - \frac{2(x-1)}{3} = 1$$

$$35. x - \frac{x-2}{3} = \frac{19x-10}{30} + 1$$

$$36. x - \frac{2x-1}{4} - \frac{5(x-2)}{12} = 1$$

$$37. \frac{9x-16}{15} + \frac{3x+2}{2} = 2x$$

$$38. \frac{13x+12}{16} + \frac{x+2}{8} - x = 1$$

$$39. \frac{14x+9}{16} + \frac{3x+2}{8} - x = 1$$

$$40. x - \frac{8x-25}{27} - 2 = \frac{2x-3}{3}$$

$$41. x - \frac{2x-1}{6} - \frac{13x-14}{18} = 1$$

$$42. x - \frac{3x-1}{8} - \frac{12x-13}{16} = 1$$

$$43. \frac{2x-1}{4} + 1 = x - \frac{3(2x-3)}{10}$$

$$44. \frac{4x+3}{6} + \frac{3(x+1)}{2} - 2x = 2$$

$$45. \frac{2(7x+4)}{15} - 2x = 1 - \frac{2x+1}{2}$$

$$46. \frac{1}{10} + \frac{3}{5}(x+1) - \frac{x-1}{2} = 1$$

$$47. \frac{3x+1}{3} - \frac{11}{12}x + \frac{x+3}{4} = 1$$

$$48. \frac{4x+1}{6} - \frac{3x-2}{2} + \frac{x+3}{3} = 2$$

$$49. \frac{x+1}{2} - \frac{2x-13}{16} - \frac{2x+1}{4} = 1$$

$$50. \frac{2x+3}{2} - \frac{3x-4}{8} = \frac{x-2}{4} + 2$$

$$51. \frac{5x+6}{18} - \frac{x-3}{6} - \frac{2}{9}(x-1) = 1$$

$$52. 1 - \frac{2x+3}{3} - \frac{1}{6} = \frac{3x-1}{2} - 2x$$

$$53. \frac{x-1}{2} - \frac{14x+3}{18} + x = \frac{2}{3}(x-1)$$

$$54. \frac{2x+3}{3} + \frac{x-1}{9} - x = 1 + \frac{5x+3}{27}$$

$$55. \frac{11x-1}{16} - \frac{x+3}{4} + \frac{3x+2}{2} = 2x$$

$$56. x - \frac{x+1}{2} - \frac{3}{8}(x-1) = \frac{x-15}{16} + 1$$

$$57. \frac{2x+3}{2} - \frac{23x-6}{16} + \frac{3x+1}{8} = 2$$

$$58. x - \frac{x+1}{3} = \frac{2}{27}(10x-3) - \frac{x+1}{9}$$

$$59. \frac{15x+19}{24} - \frac{x-3}{12} + \frac{x+2}{2} - x = 2$$

$$60. \frac{x+6}{20} + \frac{3x+1}{2} + \frac{3x+1}{10} - 2x = 1$$

5. Resuelve la ecuación:

[Comp.ind.]

$$1. \frac{1}{3} - 1 = x - \frac{3x+2}{3}$$

$$2. \frac{x+1}{2} - x = 1 - \frac{x+1}{2}$$

$$3. \frac{2x+1}{8} - 1 = x - \frac{6x+7}{8}$$

$$4. \frac{1}{4} + \frac{2x-3}{4} = x - \frac{x+1}{2}$$

$$5. \frac{5x}{6} - \frac{x-3}{3} + \frac{x-2}{2} = x$$

$$6. \frac{5x-3}{8} + \frac{x+1}{2} - \frac{x+1}{8} = x$$

$$7. \frac{x+2}{6} - \frac{x-2}{6} = x - \frac{3x-2}{3}$$

$$8. 2x - \frac{2x-1}{2} - \frac{x}{4} = \frac{3x+2}{4}$$

$$9. \frac{5x+1}{9} - \frac{2x-3}{3} + \frac{x+1}{9} = 1$$

$$10. \frac{x-2}{3} - \frac{2x-1}{6} = x - \frac{2x+1}{2}$$

$$11. x - \frac{x-3}{2} - 1 = \frac{5x-1}{6} - \frac{x-2}{3}$$

$$12. \frac{10x+7}{9} - \frac{3x-1}{3} - \frac{x+1}{9} = 1$$

6. Resuelve la ecuación:

[Incomp.]

$$1. \frac{x+2}{2} = x - \frac{3x-8}{6}$$

$$2. \frac{7}{18} + \frac{3x+1}{3} - x = 1$$

$$3. \frac{x-1}{6} = x - \frac{20x-1}{24}$$

$$4. \frac{25x-2}{30} + \frac{x-1}{6} = x$$

$$5. \frac{9x+14}{18} - x = 1 - \frac{x+1}{2}$$

$$6. x - \frac{x-1}{2} - \frac{4x-7}{8} - 1 = 0$$

$$7. x - \frac{3(x+1)}{5} = \frac{4x-9}{10}$$

$$8. \frac{18x-25}{27} + 1 = x - \frac{3x-1}{9}$$

$$9. \frac{20x+11}{24} + \frac{2x+3}{12} - x = 1$$

$$10. \frac{2x-1}{2} - \frac{x-1}{5} = x - \frac{2x-3}{10}$$

$$11. \frac{3x-8}{6} + \frac{3x+1}{3} - \frac{x-3}{2} = x$$

$$12. x - \frac{10x+13}{24} - \frac{x-2}{2} = \frac{x+3}{12}$$

7. Resuelve la ecuación:

[Comp.det.]

$$1. \frac{9}{4} - \frac{x+1}{4x} - \frac{4x+3}{4x-4} = \frac{x-1}{x}$$

$$2. \frac{7}{3x} - \frac{1}{x} - \frac{3x+2}{3x^2} - \frac{1}{6x} = 0$$

$$3. \frac{x-2}{x-1} - \frac{x^2+x+1}{x^2-1} + \frac{x-1}{x+1} = 1$$

$$4. \frac{x-1}{x} + \frac{x+3}{6x-3} + \frac{x+1}{2x-1} = \frac{5}{3}$$

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

$$6. \frac{x+1}{x} + \frac{x^2+x-1}{2x^2-x} + \frac{x-1}{2x-1} = 2$$

$$7. \frac{x-1}{x} + \frac{x+7}{x+2} + \frac{x^2+x+1}{x^2+2x} = 3$$

$$8. \frac{x+1}{2x} - \frac{x^2+x+3}{2x^2+2x} + \frac{x-1}{x+1} = 1$$

$$9. 3 - \frac{x-4}{x-3} - \frac{x^2+x+1}{x^2-9} = \frac{x+5}{x+3}$$

$$10. 3 - \frac{x^2+x-9}{x^2-4} - \frac{x}{x-2} = \frac{x+1}{x+2}$$

$$11. \frac{x-1}{x+1} + \frac{x+5}{x-1} - \frac{x^2+x+11}{x^2-1} = 1$$

$$12. \frac{x-1}{x} + \frac{x^2+x-3}{2x^2+x} + \frac{x+1}{2x+1} = 2$$

$$13. \frac{x-2}{2x} + \frac{x^2+x+3}{4x^2} + \frac{x+1}{x} = \frac{7}{4}$$

$$14. \frac{3}{2} - \frac{x-2}{2x-1} - \frac{x+1}{2x} = \frac{x^2+x-1}{2x^2-x}$$

$$15. \frac{x+1}{x-2} + \frac{x-1}{x+2} + \frac{x^2+x-16}{x^2-4} = 3$$

$$16. \frac{3}{2} - \frac{x-9}{4x-4} - \frac{x+1}{x-1} = \frac{x^2+x-4}{4x^2-4}$$

$$17. \frac{x+1}{x+3} + \frac{x^2+x-19}{x^2+3x} + \frac{x+6}{x} = 3$$

$$18. \frac{x^2+x-32}{x^2-9} + \frac{x-1}{x+3} + \frac{x+1}{x-3} = 3$$

$$19. \frac{x+1}{2x-3} + \frac{x-2}{x} + \frac{x^2+x-3}{2x^2-3x} = 2$$

$$20. \frac{x-5}{2x^2+2x} + \frac{1}{x} = \frac{1}{2x+2} - \frac{1}{2x}$$

$$21. \frac{5}{3} - \frac{3x+7}{9x+6} - \frac{x-1}{x} = \frac{x^2+x+1}{3x^2+2x}$$

$$22. \frac{x+1}{3x} + \frac{x-1}{x} = \frac{7}{3} - \frac{3x^2+3x-1}{3x^2}$$

$$23. \frac{2x-1}{2x-4} + \frac{2x-3}{2x} + \frac{x^2+x+1}{x^2-2x} = 3$$

$$24. \frac{5}{3} - \frac{x+1}{x} - \frac{x^2+x+3}{3x^2-2x} = \frac{3x-13}{9x-6}$$

$$25. \frac{x+5}{4x+4} + \frac{x-6}{4x-4} = \frac{3}{2} - \frac{x^2+x+1}{x^2-1}$$

$$26. \frac{x+1}{3x} + \frac{3x^2+3x+2}{9x^2-3x} = 1 - \frac{3x-7}{9x-3}$$

$$27. \frac{2}{3x+1} - \frac{x+1}{9x^2+3x} + \frac{1}{9x+3} = \frac{1}{x}$$

$$28. \frac{5}{4} - \frac{12x+31}{24x+36} - \frac{x+1}{4x+6} = \frac{3x+1}{6x}$$

8. Resuelve la ecuación:

[Sol. falsa]

$$\begin{array}{llll}
 1. \frac{1}{3x} - \frac{x-6}{6x^2} = \frac{1}{x} - \frac{x-1}{x^2} & 2. \frac{x+1}{x+2} + \frac{x+1}{2x} + \frac{x+4}{2x+4} = 2 & 3. \frac{x-1}{2x-1} + \frac{x+1}{3x} + \frac{x+1}{6x-3} = 1 & 4. \frac{x-3}{6x^2} + \frac{x+1}{2x^2} = \frac{5}{6x} - \frac{1}{3x} \\
 5. 1 - \frac{x+1}{x-1} = \frac{x-1}{x+1} - \frac{x^2+x+4}{x^2-1} & 6. \frac{x^2-x-6}{x^2-4} - \frac{x-1}{x+2} = 1 - \frac{x-3}{x-2} & 7. \frac{x-4}{x-1} + \frac{x+2}{x} + \frac{x^2+x+1}{x^2-x} = 3 & 8. \frac{x+1}{x-3} + \frac{x^2+x-21}{x^2-3x} + \frac{x-7}{x} = 3 \\
 9. \frac{x+4}{2x+2} - \frac{x^2+x+1}{2x^2+2x} + \frac{x-1}{x+1} = 1 & 10. 3 - \frac{2x-5}{2x-2} - \frac{x^2+x+1}{x^2-1} = \frac{2x+5}{2x+2} & 11. 3 - \frac{3x-19}{3x-9} - \frac{x^2+x+1}{x^2-3x} = \frac{3x+1}{3x} & 12. 3 - \frac{4x-11}{4x-8} - \frac{x^2+x+1}{x^2-4} = \frac{4x+11}{4x+8}
 \end{array}$$

9. Resuelve la ecuación:

[Comp.ind.]

$$\begin{array}{llll}
 1. \frac{7}{4} - \frac{x+1}{2x} - \frac{x-6}{4x} = \frac{x+1}{x} & 2. \frac{x-1}{x+1} - \frac{x^2+x+2}{x^2+x} + \frac{x+2}{x} = 1 & 3. \frac{x-4}{x} + \frac{x^2+x-4}{x^2-x} + \frac{x+1}{x-1} = 3 & 4. \frac{13}{9} - \frac{x-12}{9x} - \frac{x+1}{x} - \frac{x+1}{3x} = 0 \\
 5. \frac{x-2}{2x^2-3x} + \frac{1}{6x-9} = \frac{1}{x} - \frac{1}{3x} & 6. \frac{x+4}{3x+3} + \frac{x^2+x+1}{x^2+x} = \frac{5}{3} - \frac{x-3}{3x} & 7. 2 - \frac{x+2}{2x+1} - \frac{x-1}{x} - \frac{x^2+x+1}{2x^2+x} = 0 & 8. \frac{x+2}{x-1} - \frac{x^2+x+4}{x^2-1} + \frac{x-1}{x+1} = 1 \\
 9. \frac{x^2+x-36}{x^2-9} + \frac{x-2}{x+3} + \frac{x+1}{x-3} = 3 & 10. \frac{x^2+x+6}{6x^2+6x} + \frac{x+1}{x} = \frac{4}{3} - \frac{x-9}{6x-6} & 11. \frac{5}{3} - \frac{x^2+x+1}{3x^2-x} - \frac{3x-14}{9x-3} = \frac{x+1}{x} & 12. \frac{5}{6} - \frac{x^2+x-3}{6x^2} - \frac{x-4}{6x} = \frac{x^2+x+1}{2x^2}
 \end{array}$$

10. Resuelve la ecuación:

[Incomp.]

$$\begin{array}{llll}
 1. \frac{x^2-x+6}{x^2-1} - 1 = \frac{x-1}{x+1} - \frac{x-2}{x-1} & 2. 3 - \frac{x+4}{x} - \frac{x-3}{x+1} = \frac{x^2+x+1}{x^2+x} & 3. \frac{x-1}{5x^2} + \frac{x+1}{3x^2} = \frac{3}{5x} - \frac{x+1}{15x^2} & 4. \frac{x^2+x+4}{3x^2+3x} + \frac{x-3}{3x} = \frac{5}{3} - \frac{x+1}{x} \\
 5. \frac{x^2+x-17}{x^2-9} + \frac{x-2}{x-3} + \frac{x+1}{x+3} = 3 & 6. \frac{x+1}{3x^2-2x} + \frac{1}{3x-2} = \frac{5}{3x} - \frac{1}{x} & 7. \frac{1}{x} + \frac{x-1}{6x^2+3x} + \frac{1}{3x} = \frac{3}{2x+1} & 8. \frac{7}{6} - \frac{x+1}{3x+2} - \frac{x+1}{2x} = \frac{6x-7}{18x+12} \\
 9. \frac{x+1}{2x^2-2x} + \frac{1}{x-1} + \frac{1}{2x} - \frac{2}{x} = 0 & 10. 2 - \frac{x^2+x-1}{2x^2} - \frac{x-3}{2x} = \frac{x^2+x+1}{x^2} & 11. \frac{x-2}{x+2} + \frac{(x+4)(x-3)}{x^2-4} + \frac{x+1}{x-2} = 3 & 12. \frac{x-2}{x+1} - 3 + \frac{x^2+x-10}{x^2-1} + \frac{x+1}{x-1} = 0
 \end{array}$$

—Soluciones—

1.1. 1 1.2. $\frac{3}{2}$ 1.3. $-\frac{3}{2}$ 1.4. $\frac{1}{4}$ 1.5. 2 1.6. $-\frac{1}{4}$ 1.7. 1 1.8. $-\frac{1}{3}$ 1.9. -4 1.10. 1 1.11. 0 1.12. 2 1.13. 0 1.14. 4 1.15. $\frac{1}{4}$ 1.16. -1 1.17. $-\frac{1}{3}$ 1.18. 0
 1.19. 3 1.20. 2 1.21. -1 1.22. $\frac{4}{3}$ 1.23. $\frac{3}{4}$ 1.24. $\frac{1}{3}$ 1.25. 0 1.26. $-\frac{1}{2}$ 1.27. $\frac{1}{3}$ 1.28. $-\frac{3}{2}$ 1.29. -1 1.30. $\frac{2}{3}$ 1.31. 1 1.32. 1 1.33. $-\frac{1}{2}$ 1.34. $-\frac{1}{2}$
 1.35. $-\frac{1}{4}$ 1.36. 0 1.37. 2 1.38. $\frac{3}{2}$ 1.39. 1 1.40. $-\frac{4}{3}$ 1.41. 2 1.42. 1 1.43. $\frac{3}{4}$ 1.44. 1 1.45. $-\frac{2}{3}$ 1.46. 2 1.47. 2 1.48. $-\frac{3}{2}$ 1.49. -4 1.50. $-\frac{1}{3}$
 1.51. $-\frac{4}{3}$ 1.52. 0 1.53. -1 1.54. -1 1.55. -1 1.56. $\frac{4}{3}$ 1.57. $\frac{1}{4}$ 1.58. 2 1.59. $\frac{3}{2}$ 1.60. -1 2.1. comp.ind. 2.2. comp.ind. 2.3. comp.ind. 2.4. comp.ind.
 2.5. comp.ind. 2.6. comp.ind. 2.7. comp.ind. 2.8. comp.ind. 2.9. comp.ind. 2.10. comp.ind. 2.11. comp.ind. 2.12. comp.ind. 2.13. comp.ind. 2.14. comp.ind.
 2.15. comp.ind. 2.16. comp.ind. 2.17. comp.ind. 2.18. comp.ind. 2.19. comp.ind. 2.20. comp.ind. 3.1. inc. 3.2. inc. 3.3. inc. 3.4. inc. 3.5. inc. 3.6. inc.
 3.7. inc. 3.8. inc. 3.9. inc. 3.10. inc. 3.11. inc. 3.12. inc. 3.13. inc. 3.14. inc. 3.15. inc. 3.16. inc. 3.17. inc. 3.18. inc. 3.19. inc. 3.20. inc. 4.1. $\frac{1}{3}$
 4.2. $-\frac{1}{2}$ 4.3. 2 4.4. $-\frac{3}{2}$ 4.5. 2 4.6. $-\frac{4}{3}$ 4.7. $\frac{3}{4}$ 4.8. 1 4.9. -1 4.10. 0 4.11. -2 4.12. $\frac{3}{2}$ 4.13. 1 4.14. $\frac{1}{4}$ 4.15. 1 4.16. 1 4.17. 0 4.18. 2 4.19.
 -1 4.20. -2 4.21. $\frac{2}{3}$ 4.22. $\frac{4}{3}$ 4.23. 1 4.24. $-\frac{1}{2}$ 4.25. -1 4.26. -1 4.27. $-\frac{4}{3}$ 4.28. 1 4.29. $\frac{4}{3}$ 4.30. $-\frac{1}{2}$ 4.31. -1 4.32. $\frac{4}{3}$ 4.33. -1 4.34. 3 4.35. 0
 4.36. -1 4.37. $\frac{2}{3}$ 4.38. 0 4.39. $\frac{3}{4}$ 4.40. 2 4.41. -1 4.42. $-\frac{1}{2}$ 4.43. $\frac{3}{2}$ 4.44. 0 4.45. $\frac{1}{2}$ 4.46. -2 4.47. $-\frac{1}{4}$ 4.48. $\frac{1}{3}$ 4.49. $\frac{1}{2}$ 4.50. $-\frac{4}{3}$ 4.51. $\frac{1}{2}$
 4.52. 2 4.53. 0 4.54. 0 4.55. 3 4.56. 3 4.57. 0 4.58. 0 4.59. -1 4.60. $-\frac{2}{3}$ 5.1. comp.ind. 5.2. comp.ind. 5.3. comp.ind. 5.4. comp.ind. 5.5.
 comp.ind. 5.6. comp.ind. 5.7. comp.ind. 5.8. comp.ind. 5.9. comp.ind. 5.10. comp.ind. 5.11. comp.ind. 5.12. comp.ind. 6.1. inc. 6.2. inc. 6.3. inc. 6.4. inc.
 6.5. inc. 6.6. inc. 6.7. inc. 6.8. inc. 6.9. inc. 6.10. inc. 6.11. inc. 6.12. inc. 7.1. $-\frac{3}{4}$ 7.2. 4 7.3. $-\frac{1}{4}$ 7.4. $-\frac{3}{2}$ 7.5. $\frac{1}{2}$ 7.6. $\frac{2}{3}$ 7.7. $\frac{1}{3}$ 7.8. $-\frac{2}{3}$ 7.9.
 $-\frac{1}{2}$ 7.10. $-\frac{1}{2}$ 7.11. $\frac{4}{3}$ 7.12. -4 7.13. -3 7.14. $\frac{3}{2}$ 7.15. 0 7.16. 3 7.17. $\frac{1}{2}$ 7.18. -1 7.19. -3 7.20. $\frac{2}{3}$ 7.21. -1 7.22. 1 7.23. $-\frac{4}{3}$ 7.24. -1 7.25. $\frac{1}{3}$
 7.26. -1 7.27. $-\frac{4}{3}$ 7.28. 1 8.1. inc. 8.2. inc. 8.3. inc. 8.4. inc. 8.5. inc. 8.6. inc. 8.7. inc. 8.8. inc. 8.9. inc. 8.10. inc. 8.11. inc. 8.12. inc. 9.1.
 comp.ind. $x \neq 0$ 9.2. comp.ind. $x \in \{-1, 0\}$ 9.3. comp.ind. $x \in \{0, 1\}$ 9.4. comp.ind. $x \neq 0$ 9.5. comp.ind. $x \in \left\{0, \frac{3}{2}\right\}$ 9.6. comp.ind. $x \in \{-1, 0\}$ 9.7. comp.ind. $x \in \left\{-\frac{1}{2}, 0\right\}$ 9.8.
 comp.ind. $x \in \{-1, 1\}$ 9.9. comp.ind. $x \in \{-3, 3\}$ 9.10. comp.ind. $x \in \{0, 1\}$ 9.11. comp.ind. $x \in \left\{0, \frac{1}{3}\right\}$ 9.12. comp.ind. $x \neq 0$ 10.1. inc. 10.2. inc. 10.3. inc. 10.4. inc.
 10.5. inc. 10.6. inc. 10.7. inc. 10.8. inc. 10.9. inc. 10.10. inc. 10.11. inc. 10.12. inc.