 かわべ家庭教師学院 中3数学 日々のトレーニング 【解答】

Training 1. (1) 13 (2) -16 (3) $-3b$ (4) $(a+6)(a-2)$ (5) $-\frac{1}{6}$ (6) $(x,y) = (6,-3)$ (7) $x = \frac{7 \pm \sqrt{17}}{2}$

Training 2. (1) 8 (2) -11 (3) 6 (4) $-5a$ (5) 16 (6) $(x,y) = (1,-1)$ (7) $x = -2,3$

Training 3. (1) -2 (2) $-\frac{9}{16}$ (3) $6x-11$ (4) $4x-3$ (5) $\sqrt{6}$ (6) $(a-b)(a-b-4)$ (7) $x = \frac{-1 \pm \sqrt{41}}{2}$

Training 4. (1) -13 (2) 2 (3) $-2x$ (4) $-4xy$ (5) 4 (6) $\frac{1}{2}$ (7) $x = -1,2$

Training 5. (1) 13 (2) $-\frac{1}{3}$ (3) x^2+3y^2 (4) $12a^2$ (5) $\sqrt{2}$ (6) $(a+b)(a-6b)$ (7) $x = \frac{-3 \pm \sqrt{17}}{2}$

Training 6. (1) -4 (2) 27 (3) $\frac{x}{6}$ (4) $2xy$ (5) -2 (6) $\frac{2}{9}$ (7) $x = -2,3$

Training 7. (1) 8 (2) 3 (3) $-x$ (4) $ab-3b+2$ (5) $\sqrt{2}$ (6) $(x+2y)(x-y)$ (7) $x = \pm\sqrt{3}$

Training 8. (1) -1 (2) $\frac{3}{10}$ (3) $3ab$ (4) $-5a^2$ (5) 2 (6) $-\frac{8}{3}$ (7) $x = -7,2$

Training 9. (1) 2 (2) $-\frac{1}{6}$ (3) $\frac{x}{12}$ (4) $-3b^2$ (5) 3 (6) $(a+b+1)(a-b-1)$ (7) $x = -3,1$

Training 10. (1) 4 (2) 2 (3) $-10y^2$ (4) $-3x$ (5) $\sqrt{5}$ (6) $\frac{1}{9}$ (7) $a = 6$


Training 11. (1) -7 (2) 2 (3) $\frac{x}{12}$ (4) $-4a^2b$ (5) $(x-3y)(x+4y)$ (6) -4 (7) $x = \frac{1 \pm \sqrt{33}}{2}$

Training 12. (1) 4 (2) $-\frac{5}{8}$ (3) $-y$ (4) $\frac{2}{3}b^2$ (5) $\sqrt{3}$ (6) $(x,y) = (8,-9)$ (7) $x = -1,2$

Training 13. (1) -13 (2) 1 0 (3) $\frac{5x+7y}{12}$ (4) $2-3ab$ (5) $\sqrt{3}$ (6) $\frac{1}{36}$ (7) $(a+1)(a+b)$

Training 14. (1) 0 (2) -10 (3) $-4ab$ (4) $8x^2y^2$ (5) 17 (6) $a = -7$ (7) $x = -2,6$

Training 15. (1) -2 (2) -1 (3) $6b^2$ (4) $9x^2$ (5) -7 (6) $(x,y) = (2,-3)$ (7) $x = -4,3$

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Training 16. (1) -8 (2) $-\frac{1}{6}$ (3) $\frac{1}{15}x$ (4) $4b^2$ (5) $-\sqrt{15}$ (6) $(a+2)(a-1)$ (7) $x = \frac{3 \pm \sqrt{17}}{2}$

Training 17. (1) 11 (2) $\frac{5}{6}$ (3) $7b-8$ (4) $15x^2y^2$ (5) 6 (6) $(a+3b)(a-2b)$ (7) $x = \frac{-3 \pm \sqrt{5}}{2}$

Training 18. (1) -8 (2) 3 (3) $\frac{7}{12}x$ (4) ab (5) $\frac{1}{36}$ (6) $(x,y) = (3,-2)$ (7) $x = -2,1$

Training 19. (1) 13 (2) $-\frac{42}{5}$ (3) 4 (4) 15 (5) $4b^2$ (6) $(x+4y)(x-y)$ (7) $x = -3,2$

Training 20. (1) 15 (2) $\frac{1}{12}$ (3) $\frac{13}{3}a$ (4) $3x$ (5) $\sqrt{6}$ (6) $a^2 - b^2 + 4b - 4$ (7) $(x,y) = (2,-3)$

Training 21. (1) 20 (2) $-\frac{41}{8}$ (3) $\frac{7}{6}x$ (4) $-6a^2b^2$ (5) 5 (6) $a = 2$ (7) $x = -3,4$

Training 22. (1) 6 (2) $\frac{7}{8}$ (3) $\frac{7}{6}x$ (4) $-5ab$ (5) $\frac{2}{3}$ (6) $24ab - 9b^2$ (7) $x = -2,4$

Training 23. (1) 14 (2) $\frac{19}{24}a$ (3) $8a^2 - 28b^2$ (4) 12 (5) $\frac{1}{18}$ (6) $\frac{13}{3}$ (7) $x = -5 \pm \sqrt{7}$

Training 24. (1) 13 (2) -3 (3) $3ab^2$ (4) 2 (5) $x = -6,1$ (6) $(x,y) = (3,-2)$ (7) -18

Training 25. (1) -3 (2) $\frac{7}{15}$ (3) $8a$ (4) $\frac{x}{12}$ (5) 15 (6) $(a+b+1)(a-b-1)$ (7) $x = -3,4$

Training 26. (1) 7 (2) $-\frac{11}{12}$ (3) $25ab$ (4) 10 (5) $x = -12,4$ (6) $a = 6$ (7) 40000

Training 27. (1) -6 (2) $\frac{13}{12}$ (3) $12ab^3$ (4) 12 (5) $x = -2,5$ (6) $a = 3, b = -5$ (7) $x = \frac{-3 \pm \sqrt{21}}{2}$

Training 28. (1) 45 (2) $\frac{3}{2}$ (3) $-\frac{4}{3}$ (4) -2 (5) $x = -3,1$ (6) $(x,y) = (1,-1)$ (7) $2(2x+1)(2x-1)$

Training 29. (1) 21 (2) $-\frac{1}{18}$ (3) $x = 15$ (4) 20 (5) $\sqrt{2}$ (6) $\frac{x-4}{4}$ (7) $x = -2,0$

Training 30. (1) 5 (2) $\frac{23}{36}$ (3) $28x^2$ (4) $2a$ (5) 12 (6) $x = -16,1$ (7) $(x,y) = (6,2)$