Formeln umformen

1. $B = \pi \bullet (R - r) \bullet (R + r)$ R = ?
2. $Z = \frac{A \bullet B}{T} + \frac{x}{A}$ T = ?
3. $C = \frac{1}{4 \bullet g} \bullet (2 \bullet a + \frac{L \bullet F}{g})$ F = ?
4. $O = r \bullet \pi \bullet (r + s)$ s = ?
5. $S = 2 \bullet \pi \bullet \sqrt{\frac{m}{D}}$ D = ?
6. $B = \frac{d}{2 \bullet (1+r)}$ r, d = ?
7. $2 \bullet x_1 - \frac{x_2}{2 \bullet x_3} = a$ x_1, x_2, x_3 = ?
8. $\frac{(k+l) \bullet m}{r} - s = t$ s, m, r, k = ?
9. $\frac{1}{g} + \frac{1}{b} = \frac{1}{f}$ b, g, f = ?
10. $G = \frac{D}{2 \bullet (1-f)}$ f = ?
11. $u \bullet (v - w) = u \bullet w$ w = ?
12. $c + 2 = \frac{b}{b-1}$ b = ?
13. $x = c - \frac{y-d}{e}$ y, d, e = ?
14. $z = \frac{v}{x+2} - y$ y, v, x = ?
15. $s = v \bullet t - \frac{a}{2} \bullet t^2$ a = ?
16. $\frac{5 \bullet a}{a+b} = 3$ a = ?
17. $A = \frac{(a-b) \bullet h}{m}$ m, b = ?
18. $\left(1 - \frac{u}{v}\right) \bullet (1 - w) = u$ u, v, w = ?
19. $\frac{n}{k-m} - n = 1$ m, n = ?
20. $A = \frac{a \bullet b}{c+b} + 1$ b = ?
21. $S = \frac{8 \bullet k - u}{2-k}$ u, k = ?
22. $b = a - \frac{a \bullet c}{2 \bullet e}$ a, e = ?
23. $\frac{x+1}{x} - y = z$ x = ?
24. $p - \frac{t}{s+1} = t$ s, t = ?

Lösungen:

1. $R = \sqrt{\frac{B + r^2 \bullet \pi}{\pi}}$
2. $T = \frac{A^2 \bullet B}{Z \bullet A - x}$
3. $F = \frac{2 \bullet g}{L} \bullet (2 \bullet g \bullet C - a)$
4. $s = \frac{O - r^2 \bullet \pi}{r \bullet \pi}$
5. $D = \frac{4 \bullet \pi^2 \bullet m}{S^2}$
6. $r = \frac{d}{2 \bullet B} - 1; d = 2 \bullet B \bullet (1 + r)$
7. $x_1 = \frac{a}{2} + \frac{x_2}{4 \bullet x_3}; x_2 = 2 \bullet x_3 \bullet (2x_1 - a);$ $x_3 = \frac{x_2}{4 \bullet x_1 - 2 \bullet a}$
8. $s = \frac{(k+l) \bullet m}{r} - t; m = \frac{r \bullet t + r \bullet s}{k+l}; r = \frac{(k+l) \bullet m}{t+s};$ $k = \frac{r \bullet t + r \bullet s - l \bullet m}{m}$
9. $b = \frac{-g \bullet f}{f-g}; g = \frac{-b \bullet f}{f-b}; f = \frac{gb}{b+g}$
10. $f = \frac{2 \bullet G - D}{2 \bullet G}$
11. $w = \frac{v}{2}$
12. $b = \frac{c+2}{c+1}$
13. $y = d + c \bullet e - x \bullet e; d = x \bullet e - c \bullet e + y;$ $e = \frac{d-y}{x-c}$
14. $y = \frac{v}{x+2} - z; v = (x + 2) \bullet (z + y);$ $x = \frac{v - 2 \bullet z - 2 \bullet y}{z+y}$
15. $a = \frac{2 \bullet v \bullet t - 2 \bullet s}{t^2}$
16. $a = \frac{3 \bullet b}{2}$
17. $m = \frac{(a-b) \bullet h}{A}; b = \frac{a \bullet h - A \bullet M}{h}$
18. $u = \frac{(1-w) \bullet v}{v+1-w}; v = \frac{u \bullet (1-w)}{1-w-u}; w = \frac{u \bullet v - v + u}{u - v}$
19. $m = \frac{k - n + n \bullet k}{n+1}; n = \frac{k-m}{1-k+m}$
20. $b = \frac{c - A \bullet c}{A - a - 1}$
21. $u = 8 \bullet k - S \bullet (2 - k); k = \frac{2 \bullet S + u}{8 + S}$
22. $a = \frac{2 \bullet b \bullet e}{2 \bullet e - c}; e = \frac{-a \bullet c}{2 \bullet b - 2 \bullet a}$
23. $x = \frac{-1}{1 - y - z}$
24. $s = \frac{2 \bullet t - p}{p - t}; t = \frac{p \bullet (s+1)}{2+s}$