Changing the Subject of a Formula - Mixed Questions

Change the subject of each formula to the letter in brackets:

1. $y = x + 4 \quad (x)$ **2.** $y = x - 1 \quad (x)$ **3.** $y = 3x \quad (x)$

4. $y = \frac{x}{2} \quad (x)$ **5.** $y = x + a \quad (x)$ **6.** $y = x - k \quad (x)$

7. $y = mx \quad (x)$ **8.** $y = \frac{x}{p} \quad (x)$ **9.** $d = t + k \quad (t)$

10. $p = s - c \quad (s)$ **11.** $V = Ah \quad (h)$ **12.** $v = \frac{d}{t} \quad (d)$

13. $y = 2x + 7 \quad (x)$ **14.** $y = ax - b \quad (x)$ **15.** $C = 2\pi r \quad (r)$

16. $y = \frac{2x}{3} \quad (x)$ **17.** $A = \frac{bh}{2} \quad (h)$ **18.** $a = \frac{v - u}{t} \quad (v)$

19. $y = x^2 + c \quad (x)$ **20.** $A = \pi r^2 \quad (\mathrm{r})$ **21.** $y = \sqrt{x} + a \quad (x)$

22. $y = \frac{\sqrt{x}}{m} \quad (x)$ **23.** $d = 5t^2 \quad (t)$ **24.** $I = \frac{PRT}{100} \quad (T)$

25. $m = \frac{x + y}{2} \quad (x)$ **26.** $V = x^2 h \quad (x)$ **27.** $y = px^2 - q \quad (x)$

28. $T = 2\sqrt{L} \quad (L)$ **29.** $p = \frac{3x + 2y}{m} \quad (x)$ **30.** $V = \frac{\pi r^2 h}{3} \quad (r)$

Answers

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

4. $x = 2y$ **5.** $x = y - a$ **6.** $x = y + k$

7. $x = \frac{y}{m}$ **8.** $x = py$ **9.** $t = d - k$

10. $s = p + c$ **11.** $h = \frac{V}{A}$ **12.** $d = vt$

13. $x = \frac{y - 7}{2}$ **14.** $x = \frac{y + b}{a}$ **15.** $r = \frac{C}{2\pi}$

16. $x = \frac{3y}{2}$ **17.** $h = \frac{2A}{b}$ **18.** $v = at + u$

19. $x = \sqrt{y - c}$ **20.** $r = \sqrt{\frac{A}{\pi}}$ **21.** $x = (y - a)^2$

22. $x = (my)^2$ **23.** $t = \sqrt{\frac{d}{5}}$ **24.** $T = \frac{100I}{PR}$

25. $x = 2m - y$ **26.** $x = \sqrt{\frac{V}{h}}$ **27.** $x = \sqrt{\frac{y + q}{p}}$

28. $L = \left(\frac{T}{2}\right)^2$ **29.** $x = \frac{mp - 2y}{3}$ **30.** $r = \sqrt{\frac{3V}{\pi h}}$