Changing the Subject of a Formula - 4

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

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

4. $y = \sqrt{x} - k \quad (x)$ **5.** $y = \sqrt{x} + p \quad (x)$ **6.** $y = \sqrt{x} - t \quad (x)$

7. $y = 3\sqrt{x} \quad (x)$ **8.** $y = \dfrac{\sqrt{x}}{2} \quad (x)$ **9.** $y = 6\sqrt{x} \quad (x)$

10. $y = \dfrac{\sqrt{x}}{10} \quad (x)$ **11.** $y = a\sqrt{x} \quad (x)$ **12.** $y = \dfrac{\sqrt{x}}{m} \quad (x)$

13. $T = 2\sqrt{L} \quad (L)$ **14.** $d = k\sqrt{t} \quad (t)$ **15.** $p = c\sqrt{v} \quad (v)$

Answers

1. $x = (y-1)^2$ **2.** $x = (y+4)^2$ **3.** $x = (y-a)^2$

4. $x = (y+k)^2$ **5.** $x = (y-p)^2$ **6.** $x = (y+t)^2$

7. $x = \left(\frac{y}{3}\right)^2$ **8.** $x = (2y)^2$ **9.** $x = \left(\frac{y}{6}\right)^2$

10. $x = (10y)^2$ **11.** $x = \left(\frac{y}{a}\right)^2$ **12.** $x = (my)^2$

13. $L = \left(\frac{T}{2}\right)^2$ **14.** $t = \left(\frac{d}{k}\right)^2$ **15.** $v = \left(\frac{p}{c}\right)^2$