Changing the subject

Make y the subject

1. $y + 6 = x$
2. $y - 8 = b$
3. $5y = c$
4. $y \div 4 = m$
5. $v = y^2$
6. $8\pi y = d$
7. $y - 8 = k + 6$
8. $2y = 4f + 6$
9. $\sqrt{y} = \mathrm{w}$
10. $s = y^3$
11. $11 - y = n$
12. $\sqrt[3]{y} = t + 1$

Make x the subject

1. $4x + 5 = y$
2. $t = 6x - 3$
3. $7x \div 6 = g$
4. $5c - x = 9$
5. $x^2 + 4 = h$
6. $6(x + 10) = p$
7. $\sqrt{x - 9} = f$
8. $5x^2 = y$
9. $2y + 4x = 12$
10. $x^3 + 6y = 1$
11. $(x + 5)^2 = t$
12. $x^2 + y^2 = 36$

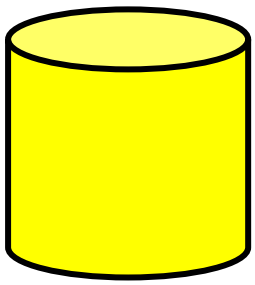
Make a the subject

1. $\dfrac{(a + 4)^2}{t} = 7$
2. $\sqrt{a^2 + b^2} = c$
3. $\dfrac{a^2 - 3}{6} = \mathrm{y}$
4. $4a^2 - 7 = k$
5. $\dfrac{a^3}{8} + 13 = d$
6. $(3a + 3)^3 = x$
7. $a^2 b - 7c = e$
8. $\sqrt{\dfrac{a + 9}{c}} = d$

1. The volume of a cylinder is given by

$$V = \pi r^2 h$$

Make r the subject of the formula.



2. Correct any mistakes.

Make x the subject:

$(x + 7)^2 + 9 = t$

$(x + 7)^2 = t - 9$

$x + 7 = \sqrt{t} - 9$

$x = \sqrt{t} - 16$