

CHANGING THE SUBJECT (ADVANCED) – PRACTICE QUESTIONS



1.
Make x the subject of the equation

$$3x - 4 = y$$

2.
Make a the subject of the equation

$$\frac{a + 1}{5} = b - 2$$

3.
Make c the subject of the equation

$$c^2 + 11 = d$$

4.
Make e the subject of the equation

$$\sqrt{e - 13} = f$$

5.
Make g the subject of the equation

$$5g - h = 3j - 6g$$

6.

Make k the subject of the equation

$$7(2k + 5) = 4(j - k)$$

7.

Make m the subject of the equation

$$\frac{3m + 10}{2} = 2n + 1$$

8.

Make p the subject of the equation

$$\sqrt{\frac{p - 1}{9}} = r$$

9.

Make s the subject of the equation

$$\frac{s^2 + t}{u} = u$$

10.

Make w the subject of the equation

$$\sqrt{5w^2 - 8} = z$$

11.

Make x the subject of the equation

$$\frac{9z - 5}{2x} = 3x$$

12.

Make a the subject of the equation

$$b = c + 5ab^2$$

13.

Make m the subject of the equation

$$w = t + 9m^3$$

14.

Make f the subject of the equation

$$L = \frac{g(f - 7)}{2}$$

15.

Make y the subject of the equation

$$12y + x = 3x - ey$$

16.

Make a the subject of the equation

$$ba - c = d + 11a$$

17.

Make p the subject of the equation

$$p - 3 = t(p + 5)$$

18.

Make z the subject of the equation

$$y(z + 10) = t - 2z$$

19.

Make x the subject of the equation

$$y = \frac{x}{x + 3}$$

20.

Make b the subject of the equation

$$c = \frac{b + 4}{b + 5}$$

21.

Make d the subject of the equation

$$\frac{3d + 5}{d - 3} = T$$

22.

Make z the subject of the equation

$$r = az + \frac{3z}{2}$$

23.

Make r the subject of the equation

$$2x = er - \frac{r}{4}$$

24.

Make z the subject of the equation

$$xy = zx^2 - 20z$$

25.

Make r the subject of the equation

$$(2r - 9)^2 = y$$

26.

Make x the subject of the equation

$$\sqrt{\frac{x^2 + y}{5}} = 2x$$

27.

Make A the subject of the equation

$$a^2 = b^2 + c^2 - 2bc \cos A$$

28.

Make w the subject of the equation

$$4w - 5 = \frac{3t}{4w + 5}$$

29.

Make B the subject of the equation

$$\frac{2}{B} + \frac{3}{C} = \frac{5}{E}$$

30.

Make f the subject of the equation

$$(\sqrt{f} - 4)(\sqrt{f} + 4) = ef + g$$

31.

Make x the subject of the equation

$$\sqrt{\frac{\sin(x - y)}{3}} = 2z$$