

Rearranging Harder Formulae

Make x the subject of each of the formulae.

(a)

$$a = b + x^2$$

(b)

$$a^2 = b^2 + x^2$$

(c)

$$b = \frac{x^3}{2a}$$

(d)

$$b = 2a + \sqrt{x}$$

(e)

$$b = \sqrt{\frac{x}{a}}$$

(f)

$$a + 5 = \sqrt{\frac{x}{b}}$$

(g)

$$ax = x + 5$$

(h)

$$ax + b = a + x$$

(i)

$$a = \frac{x}{x + 1}$$

(j)

$$a(x - b) = bx$$

(k)

$$b = \frac{x + a}{x - a}$$

(l)

$$a = \sqrt{\frac{x}{x + b}}$$