

National 5 Homework : 1 year course

Change the Subject of the Formula

1. Make x the subject of the formulae.

(a) $x - b = 5$

(b) $12 = n - x$

(c) $\frac{x}{5} = 6$

(d) $a = \frac{d}{x}$

(e) $5x + 4 = m$

(f) $f = 5 - 2x$

(g) $\frac{x+5}{4} = m$

(h) $m = 2(x + f)$

(i) $\frac{x+y}{m} = \frac{4m}{5}$

(j) $x^2 + y = 6$

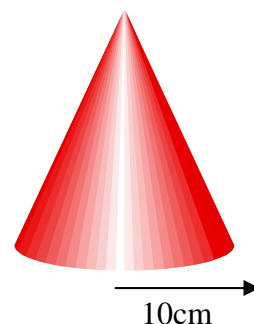
(k) $y = \frac{3}{5}(x - z)$

(l) $p = \frac{2\sqrt{x}}{3}$

2. The formula for finding the volume of the cone is $v = \frac{1}{3}\pi r^2 h$.

(a) Make h the subject of the formula.

(b) If the volume of the cylinder shown is 3140 cm^3 and the radius is 10cm , find the height of the cylinder.



3. This can of Cola has a total surface area given by the formula $A = 2\pi r(r + h)$

(a) Make h the subject of the formula.

(b) If the surface area of the can is 596.6cm^2 and the radius is 5cm , what is the height?

