

Change of Subject of Formula

EXERCISES

1. If $\frac{1}{a} = b - \frac{1}{c}$, find an expression for c in terms of a and b .
2. $\frac{1}{u} - \frac{1}{v} = \frac{1}{f}$, find u in terms of f and v .
3. Make n the subject of the formula $I = \frac{nE}{R + nr}$.
4. Given that $v = \pi h^2 \left(r - \frac{h}{5} \right)$, express r in terms of v , h and π .
5. If $2p = q + \sqrt{q^2 + r}$, find an expression for r in terms of p and q .

ANSWERS

1. $c = \frac{a}{ab - 1}$
2. $u = \frac{fv}{f - v}$
3. $n = \frac{IR}{E - In}$
4. $r = \frac{v}{\pi h^2} + \frac{h}{5}$
5. $r = 4p(p - q)$