Transposing / changing the subject of the formula

1. Make the letter in brackets [ ] the subject of the formula

a. $V=L+3$ [L] b. $D = F - 2$ [F] c. $S = f + a$ [f] d. $r = 2t + s$ [s]

e. $2E = V-I$ [V] f. $g-7 = 2d$ [d] g. $3r-6 = 3z$ [z] h. $a = 2b - c$ [b]

i. $5j = 3k+5$ [k] j. $3q - y = 4u + 2j$ [j] k. $f^2 = g$ [f] l. $j^2 = s+4$

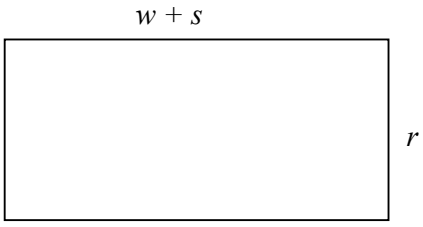
m. $d^2 - h = k$ [d] n. $w^2 = u^2 - v^2$ [u] o. $2w^2 = z$ [w] p. $s = ut + g^2$ [g]

q. $E = mc^2$ [c] r. $V=IR + Ir$ [r] s. $w = d(r+R)$ [R] t. $s = ut + at^2$ [t]

u. $R = pl/A$ [A] v. $v^2 = u^2 - 2as$ [s] w. $V = \pi r^3$ [r] x. $S = 2h + 4d^2$ [d]

y. $r^2/l = f^2$ [r] z. $r^2 - R^2 = h - H$ [R]

2.



a. Find an expression for the perimeter, P, of the rectangle. Make *w* the subject of the formula
b. Find an expression for the area, A, of the rectangle. Make *s* the subject of the formula

3. The equation of a straight line is $y = mx + c$

a. Rearrange the equation to make *c* the subject
b. Rearrange the equation to make *m* the subject
c. Rearrange the equation to make *x* the subject

4. An electrical equation is V = IR + Ir. Rearrange to make I the subject of the formula

5. The equation for Kinetic energy is $E = 1/2mv^2$. Make *v* the subject of the formula

6. A physics equation is $v = \sqrt{\frac{B}{\rho}}$. Rearrange to make *B* the subject