Substitution and Formulae Revision

(a)	(b)	(c)	(d)
$y = x^2 + 2x$ Find the value of y when $x = 5$ 35	$b = a^3 - 5a$ Find the value of b when $a = 3$ 12	$w = 2d^2 + 5d$ Find the value of w when $d = -4$ 12	$y = 3x^3 + 5x^2 - 6$ Find the value of y when $x = -2$ -10

(e)	(f)	(g)	(h)
$d = 3a + 5b$ Find d when $a = 7$ and $b = -2$ 11	$t = p^2 + pq$ Find t when $p = -6$ and $q = 2$ 24	$f = \dfrac{2d + e^2}{de}$ Find f when $d = 5$ and $e = -2$ -1.4	$y = \dfrac{3}{4}ab^2$ Find y when $a = 5$ and $b = -0.5$ 0.9375

(i)	(j)	(k)	(l)
Make b the subject of $a = 4b - 7$ $b = \dfrac{a + 7}{4}$	Make x the subject of $y = x^2 + 5$ $x = \sqrt{y - 5}$	Make d the subject of $e = \dfrac{c + d}{5}$ $d = 5e - c$	Make a the subject of $x = 2a^2 - cd$ $a = \sqrt{\dfrac{x + cd}{2}}$

(m)	(n)
Make x the subject of the formula $y = \dfrac{x}{x - 3}$ $x = \dfrac{3y}{y - 1}$	Make a the subject of the formula $b = \dfrac{5 - 2a}{3a + 2}$ $a = \dfrac{5 - 2b}{3b + 2}$