**Substitution and Formulae Revision**

|  |  |  |  |
| --- | --- | --- | --- |
| **(a)** | **(b)** | **(c)** | **(d)** |
| $$y=x^{2}+2x$$Find the value of $y $when $x=5$ | $$b=a^{3}-5a$$Find the value of $b$ when $a=3$ | $$w=2d^{2}+5d$$Find the value of $w$ when $$d=-4$$ | $$y=3x^{3}+5x^{2}-6$$Find the value of $y$ when$$x=-2$$ |
| **(e)** | **(f)** | **(g)** | **(h)** |
| $$d=3a+5b$$Find $d$ when $a=7$ and $b=-2$ | $$t=p^{2}+pq$$Find $t$ when $p=-6$ and $q=2$ | $$f=\frac{2d+e^{2}}{de}$$Find $f$ when $d=5$ and $e=-2$ | $$y=\frac{3}{4}ab^{2}$$Find $y$ when $a=5$ and $b=-0.5$ |
| **(i)** | **(j)** | **(k)** | **(l)** |
| Make $b$ the subject of $$a=4b-7$$ | Make $x$ the subject of $$y=x^{2}+5$$ | Make $d$ the subject of $$e=\frac{c+d}{5}$$ | Make $a$ the subject of $$x=2a^{2}-cd$$ |
| **(m)** | **(n)** |
| Make $x$ the subject of the formula $y=\frac{x}{x-3}$ | Make $a$ the subject of the formula $b=\frac{5-2a}{3a+2}$ |