

$$2) \quad q(1) = 5$$

$$q(p) = q(p+1) + 2001$$

$$q(1) = q(1+1) + 2001$$

$$q(1) - 2001 = q(2)$$

$$q(2) = -1996$$

$$q(2) = q(2+1) + 2001$$

$$q(2) - 2001 = q(3)$$

$$q(3) = -3997$$

$$q(x) = 5 - 2001(x-1)$$

$$q(2008) = 5 - 2001(2008-1)$$

$$= -4016002$$

$$q(2005) = -4009999$$

$$3) \quad h(-5) = 1 - -5$$

$$= 6$$

$$h(3) = 3 - 1$$

$$= 2$$

$$6 - 2 = 4$$

$$4) \quad \frac{2x+3}{3x+k} = \frac{xk-3}{2-3x}$$

$$= \frac{x(5-2)}{x(3-1)}$$