## Question 26

Let Q(x,y) be the statement x+y=x-y

- (a) False,  $1 + 1 \neq 1 1$
- (b) True, 2 + 0 = 2 0
- (c) False, since there are many values of y such that  $1 + y \neq 1 y$
- (d) False, x + 2 = x 2 has no solution
- (e) True, when x = y = 0, x + y = x y
- (f) True, when y = 0, x + y = x y
- (g) True, when y = 0, x + y = x y
- (h) False, since there is no x such that x + y = x y for all y.
- (i) False