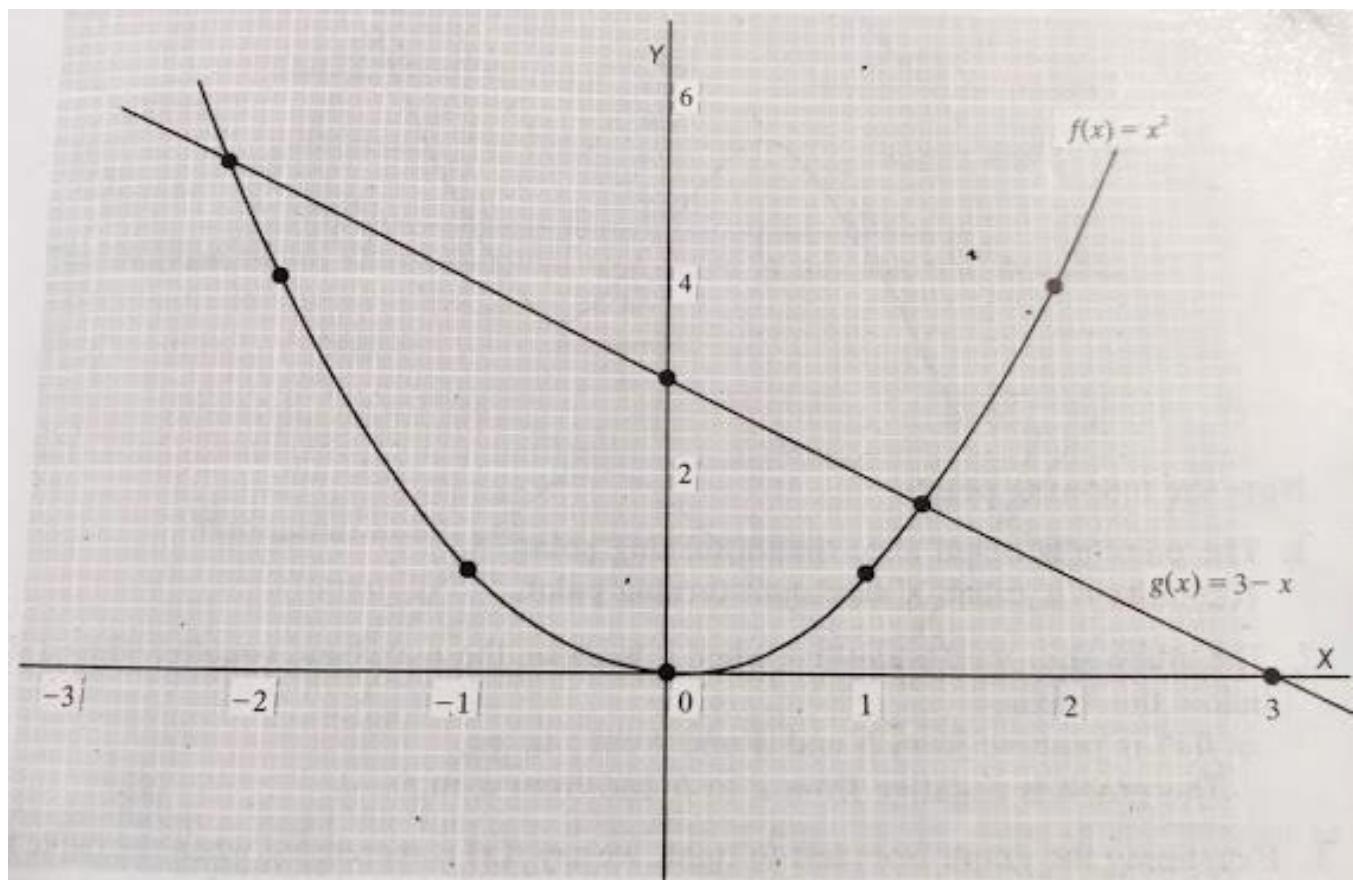
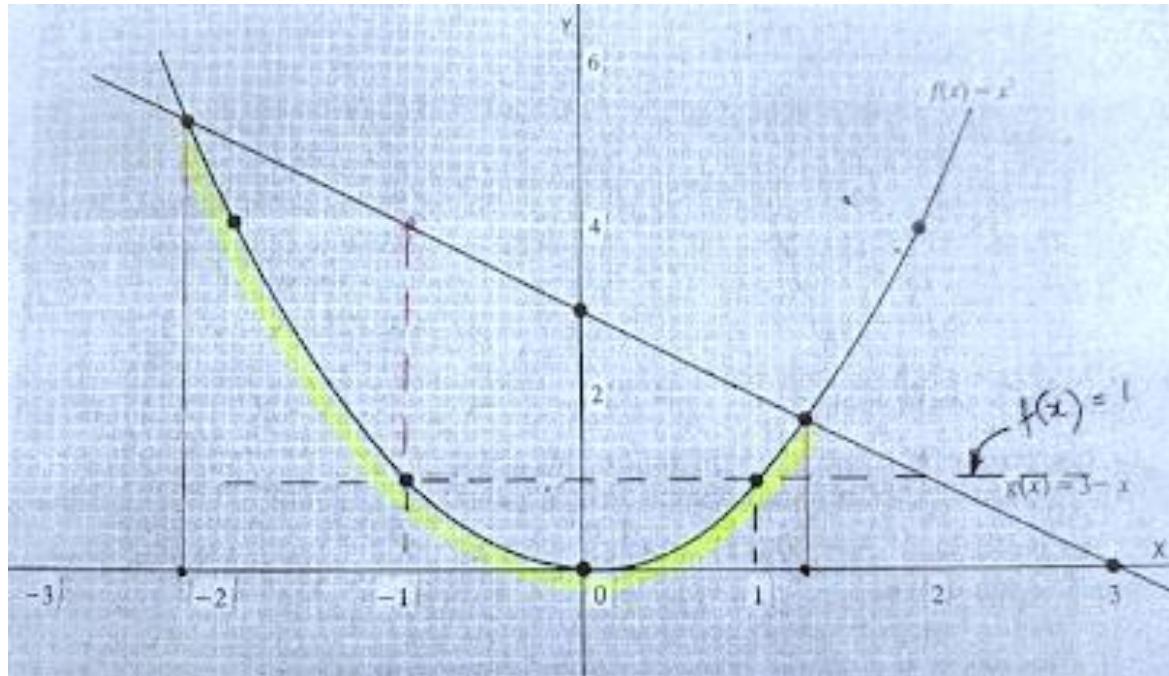


$$f(x) = x^2 \quad g(x) = 3 - x$$



Use the graph to find

- (i) the values of x for which $f(x) = g(x)$
- (ii) the range of values for x in the domain $-3 \leq x \leq 2$ for which $f(x) \leq g(x)$
- (iii) the range of values of x for which $f(x) \leq 1$
- (iv) the value of $f(x) + g(x)$ when $x = -1$
- (v) the value of $f(x) - g(x)$ when $x = 0$



- i. $-2.3, 1.3$
- ii. $-2.3 \leq x \leq 1.3$
- iii. $-1 \leq x \leq 1$
- iv. $f(x) = 1, g(x) = 4 \text{ therefore } f(x) + g(x) = 1 + 4 = 5$
- v. $f(x) = 0, g(x) = 3 \text{ therefore } f(x) - g(x) = 0 - 3 = -3$