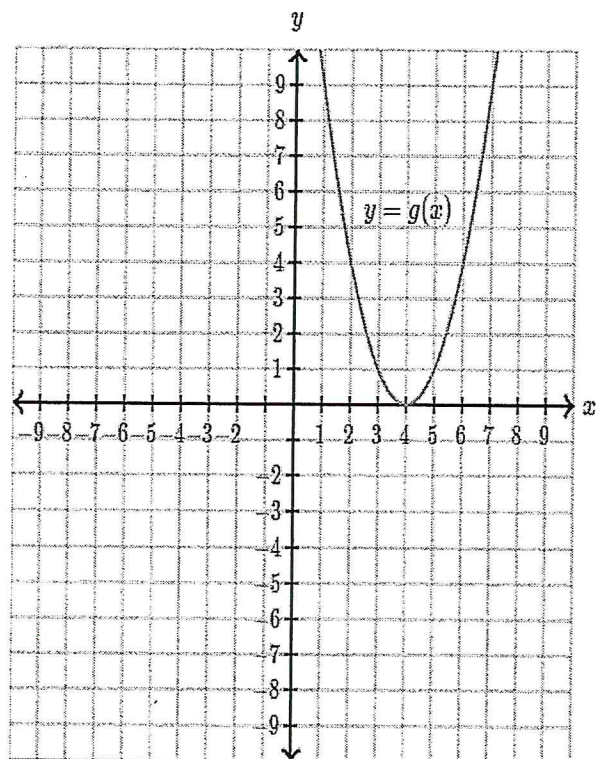


6. How many roots do the functions have in common?

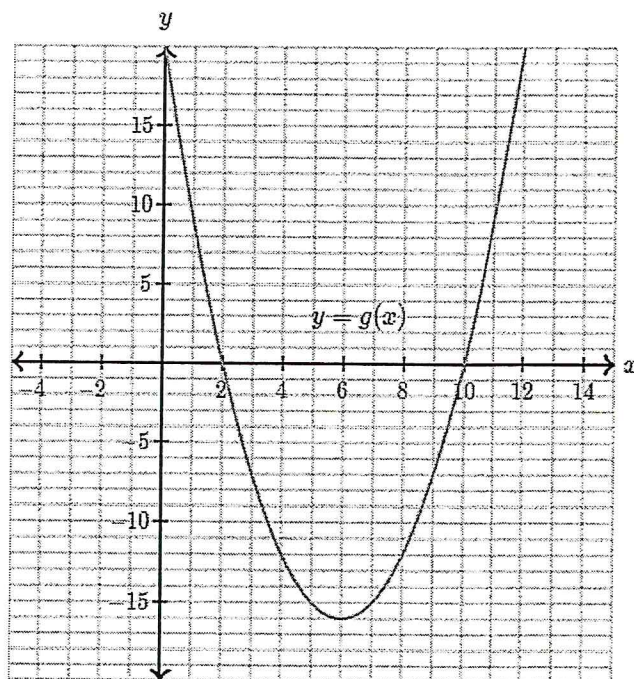
$$f(x) = x^2 - 8x + 16$$



- ☐  $f$  and  $g$  share the same root(s).
- ☐  $f$  and  $g$  share one root in common but each have another root that is not shared.
- ☐  $f$  and  $g$  share no roots in common.

7. How many roots do the functions have in common?

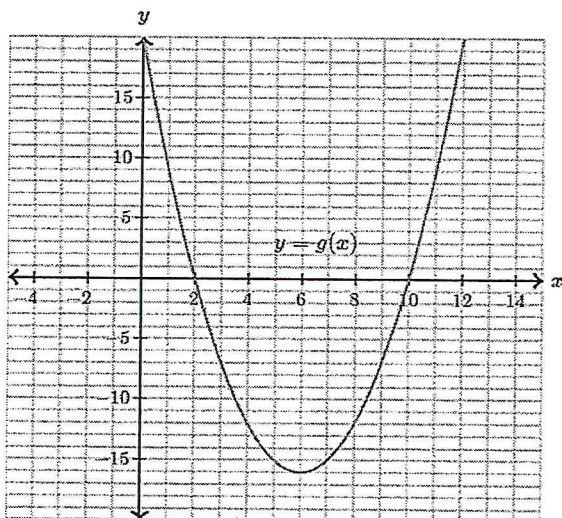
$$f(x) = (3x-2)(x-10)$$



- ☐  $f$  and  $g$  share the same root(s).
- ☐  $f$  and  $g$  share one root in common but each have another root that is not shared.
- ☐  $f$  and  $g$  share no roots in common.

8. Describe each of the following function:

$F(x) = -2(x-3)^2 + 18$  opens \_\_\_\_\_, vertex \_\_\_\_\_, y int \_\_\_\_\_, xint \_\_\_\_\_, aos \_\_\_\_\_  
min or max



open \_\_\_\_\_, vertex \_\_\_\_\_, y int \_\_\_\_\_,  
xint \_\_\_\_\_, aos \_\_\_\_\_  
min or max