

Name \_\_\_\_\_

Date \_\_\_\_\_

Year Group \_\_\_\_\_

Find  $(f \circ g)(x)$  and  $(g \circ f)(x)$  when  $f(x) = 3x^2 - 2$  and  $g(x) = -2x$

1. Find  $(f \circ g)(-2)$

Steps =>  $g(-2) = \underline{\hspace{2cm}}$

Answer =>  $(f \circ g)(-2) = \underline{\hspace{2cm}}$

2. Find  $(f \circ g)(-2)$

Steps =>  $f(-2) = \underline{\hspace{2cm}}$

Answer =>  $(g \circ f)(-2) = \underline{\hspace{2cm}}$

3. Find  $(f \circ g)(0)$

Steps =>  $g(0) = \underline{\hspace{2cm}}$

Answer =>  $(f \circ g)(0) = \underline{\hspace{2cm}}$

4. Find  $(g \circ f)(0)$

Steps =>  $f(0) = \underline{\hspace{2cm}}$

Answer =>  $(g \circ f)(0) = \underline{\hspace{2cm}}$

5. Find  $(f \circ g)(3)$

Steps =>  $g(3) = \underline{\hspace{2cm}}$

Answer =>  $(f \circ g)(3) = \underline{\hspace{2cm}}$

6. Find  $(g \circ f)(3)$

Steps =>  $f(3) = \underline{\hspace{2cm}}$

Answer =>  $(f \circ g)(3) = \underline{\hspace{2cm}}$