

MATH310 Groupwork 2022-08-01

NAME:

1. Find $f \circ g$ for the functions given. Be careful about the domain!

$$\begin{aligned} f &= \{(1, 3), (2, 6), (3, 5), (4, 2), (5, 2)\} \\ g &= \{(1, 5), (2, 3), (3, 7), (4, 3), (5, 4)\} \end{aligned}$$

Solution:

2. Suppose that $f : A \rightarrow B$. Prove that $I_B \circ f = f$.

Solution:

3. Prove that the function $f(x) = \frac{1}{3x-6}$ for $x > 2$ is decreasing.

Solution: