

Weekly test II

Monday, 6th October 2014

Ex. 1 Given the following functions

$$f(x) = 2x^2 + 1, \quad g(x) = \frac{1}{x-1}$$

determine $f \circ g$, $g \circ f$.

Ex. 2 Determine the line r passing through the point $A(2, -4)$ and parallel to the line $s : 2x - y - 1 = 0$.

Ex. 3 Determine the line r passing through the point $B(0, 1)$ and perpendicular to the line $s : x + 3y + 7 = 0$.