PENANG SANGAM HIGH SCHOOL YEAR 13 MATHEMATICS WEEK 3 Dates: (14/06/21) to (18/06/21)

WORKSHEET 3

1. The functions f and g are defined as f(x) = x + 3 and $g(x) = \frac{2}{x+1}$ a) Find (f + g)(x)

b) Find the domain of g(x).

c) Find the domain of (f + g)(x).

d). Find fog(x)

2. Functions f and g are defined as f: $x \to \sqrt{x-4}$ and g: $x \to x^2 + 1$. Find:

a). the domain of f(x) and range of g(x)

b). $g \circ f(x)$

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c). domain and range of gof(x)

d)
$$f^{-1}(1)$$

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