

Quiz #3 Math 181 H

① Find the sum:

$$\sum_{k=2}^7 k(k+2)$$

② Let $f(x) = \begin{cases} 1 & \text{for } x \in [0, 2] \\ 3 & \text{for } x \in (2, 4) \\ 7 & \text{for } x \in [4, 5] \end{cases}$.

Sketch a graph of the ordinate set of f given by
 $S = \{ \overset{(x, y)}{\cancel{x, y}} : 0 \leq x \leq 5 \text{ and } 0 \leq y \leq f(x) \}$.
and find $a(S)$, the area of S .

Quiz 3 continues...

③ Let $g(x) = \lfloor x \rfloor$ the greatest integer function and $h(x) = x^2 + 1$. Evaluate

(i) $g(2.5) =$

(ii) $h(4) =$

(iii) $g(-3.8) =$

(iv) $(g+h)(-1) =$

(v) $(g \circ h)\left(\frac{3}{2}\right) =$

(vi) $(h \circ g)\left(\frac{3}{2}\right) =$

④ Find the shaded area:

