

Blake Q's #9

June 22, 2020

Try and complete all of the problems by hand. Use Desmos to visualize what is going on.

Question 1

Graph $f(x)$ and $g(x)$ on the same graph. Also graph the line $x = 1$ and find where it intercepts $f(x)$ and $g(x)$

Hint: Define the functions on your CAS

$$f(x) = 4x \tag{1}$$

$$g(x) = 2x \tag{2}$$

Question 2

From the graph we will call the area created by the right angle triangle created by $g(x)$, $x = 1$ and the y-axis **A1**. The area from the right angle triangle created by $f(x)$, $x = 1$ and the y-axis will be called **A2**.

Find **A1** and **A2**

Question 3

Find the area of the triangle badly coloured in black.

