$$A(x) = |f(x)| - |g(x)| + h(x) = |\frac{3}{2}x + \frac{3}{2}| \cdot C, \quad -|\frac{5}{2}x| + C_2 - x + C_3$$

$$|C = C, +C_2 + C_3 \quad \text{and} \quad \text{with the knowledge that}$$

$$|A(0) = 2 \quad \text{we} \quad find \quad C = 2 = |0 + \frac{3}{2}| + 0 + 0 + C$$

$$|A(0) = 2 \quad \text{we} \quad find \quad C = \frac{3}{2} + C \quad \Rightarrow \quad C = \frac{1}{2}$$

Thus,  $A(x) = \left|\frac{3}{2}x + \frac{3}{2}\right| - \left|\frac{5}{2}x\right| - x + \frac{1}{2}$ 

where  $f(x) = \frac{3}{2}x + \frac{3}{2}$   $y(1) = \frac{5}{2}x$  and  $h(x) = \frac{1}{2} - x$