2.
$$\lim_{x\to 7} \frac{x}{\int_{x+2}^{-3}} = \lim_{x\to 7} \frac{x}{\int_{x+2}^{-3}} \times \frac{x+2+3}{\int_{x+2}^{-3}} = \lim_{x\to 7} \frac{x(\sqrt{x+2+3})}{x-7}$$
 $\frac{x}{x} + \frac{x}{2} + \frac{x}$

$$\lim_{X\to 1/1} \frac{X(JX+2+3)}{X-7} = \infty$$

Ans: DNE

(c) 题目設計有缺, 下列而種答案都算對。

$$\lim_{\chi \to \frac{17}{12}\pi} g(f(x)) = \lim_{\chi \to \frac{17}{12}\pi} \cos(2\chi + 3) = \cos(-\frac{17}{6}\pi + 3)$$

$$\lim_{\chi \to \frac{17}{12}\pi} x \times 1 - \frac{17}{12}\pi$$
or
$$\cos(\frac{\pi}{6}) = \frac{\sqrt{3}}{2}$$