[1] Evaluate the following limit

$$\lim_{x\to 2}\frac{x^2-9x+14}{x^2-5x+6}$$

[2] Evaluate the following limit

$$\lim_{x\to -\infty}\frac{x^3-x+2}{x^2+1}$$

[3] If the following is true, what is the value of c ?

$$\lim_{x\to 1}\frac{x^2-2x+c}{x^2-1}=0$$

[4] Evaluate $f'(1)$ and $f''(1)$:

$$f(x)=\frac{x\sqrt{x}}{\sqrt[3]{x^5}}$$

[5] Evaluate $f'(1)$ and $f''(1)$:

$$f(x)=\frac{x^2-1}{\sqrt[3]{x^2+1}}$$

[6] Evaluate $f'(1)$ and $f''(1)$:

$$f(x)=(\sqrt{x}+1)^5$$