1-) a-) 
$$\int e^x \cos 5x \, dx = ?$$
 [15puan] b-)  $\int \frac{dx}{1 + \cos x + \sin x} = ?$  [15puan]

2-) 
$$\int \frac{x+1}{x^2-4x+5} dx = ? \quad [30puan]$$

$$2x-4x+5 = 2x-4x+5 = 2x-5x+5 = 2$$

3-) 
$$\int \frac{\sqrt{x} + 2\sqrt[6]{x^5}}{1 + \sqrt[3]{x}} dx = ? \quad [20puan]$$

$$\sqrt[3]{x} = \sqrt{x} = \sqrt{x}$$

$$\sqrt[3]{x} = \sqrt{x}$$

$$\sqrt[3]{x} = \sqrt{x}$$

$$\sqrt[3]{x} = \sqrt{x}$$

$$\sqrt[3]{x} = \sqrt{x}$$

4-) 
$$\int \frac{7}{\sqrt{x^2 + 6x + 10}} dx = ? \quad [20 \text{puan}]$$