(5) Simplificar las siguientes expresiones:

a)
$$\left(\frac{-3}{\frac{4}{5}+1}\right)^{-1} \cdot \left(\frac{4}{5}-1\right) + \frac{1}{3}$$
, b) $\frac{a}{2\pi-6}(\pi-3)^2 - \frac{2a(\pi^2-9)}{\pi-3}$.

a)
$$\left(\frac{-3}{4/5+1}\right)^{-1} \cdot \left(\frac{4}{5}-1\right) + \frac{1}{3} = \left(\frac{-3}{4/5}\right)^{-1} \cdot \left(\frac{-1}{5}\right) + \frac{1}{3}$$

$$= \left(\frac{-5}{3}\right)^{-1} \cdot \left(\frac{-1}{5}\right) + \frac{1}{3}$$

$$= \frac{-3}{5} \cdot \frac{-1}{5} + \frac{1}{3}$$

$$= \frac{34}{25}$$

b)
$$\frac{\partial}{2\pi - 6} (\pi - 3)^2 - \frac{2\partial(\pi^2 - 9)}{\pi - 3} = \frac{\partial(\pi^2 - 3\pi - 3\pi + 9)}{Z(\pi - 3)} - \frac{2\partial(\pi^2 - 9)}{\pi - 3}$$

$$= \frac{\partial(\pi^2 - 6\pi + 9) - 4\partial(\pi^2 - 9)}{Z(\pi - 3)}$$

$$= \frac{\partial\pi^2 - 6\partial\pi + 9\partial - 4\partial\pi^2 + 3\partial\partial}{Z(\pi - 3)}$$

$$= \frac{-33N^2 - 63N + 452}{2(N-3)}$$