$$\frac{3^{2}(16)-5-2+25(16)-2+2y(16)}{5^{2}} = \frac{3+25}{5^{2}}$$

$$= \frac{3+25}{5^2} + 5 + 4$$

$$((5)(5^{2}+25+2)=\frac{3+25+5^{3}+45^{2}}{5^{2}}$$

$$(5) = \frac{5^{3} + 46^{2} + 2013}{5^{2} (5^{2} + 2012)}$$

$$\frac{3^{3}+46^{2}+26+3}{5^{2}(8^{2}+26+2)} = \frac{A}{5} + \frac{B}{5^{2}} + \frac{C_{0}+D}{5^{2}+26+2} \bigg| 5^{2}(5^{2}+26+2)$$

$$C = \frac{3}{2}$$

$$2A = 2 - 3$$

$$A = -\frac{1}{2}$$

$$D = \frac{7}{2}$$

$$\frac{5^{3}+45^{2}+25+3}{5^{2}(5^{2}+25+2)} = -\frac{1}{2}\frac{1}{5}+\frac{3}{2}\frac{1}{5^{2}}+\frac{\frac{3}{2}5+\frac{7}{2}}{5^{2}+25+2}.$$

$$=-\frac{1}{2}\frac{1}{5}+\frac{3}{2}\frac{1}{5^{2}}+\frac{\frac{3}{2}5+\frac{7}{2}}{(5+1)^{2}+1}$$

$$=((t) = -\frac{1}{2}+\frac{3}{2}t+\frac{3}{2}t\cos t+2e^{t}\sin t)$$

$$\frac{\frac{3}{2}0 + \frac{7}{2}}{(0+1)^{2}+1} = \frac{\frac{3}{2}(0+1) - \frac{7}{2}}{(0+1)^{2}+1} = \frac{\frac{3}{2}(0+1) - \frac{3}{2} + \frac{7}{2}}{(0+1)^{2}+1}$$

$$= \frac{\frac{3}{2}(0+1) + 2}{(0+1)^{2}+1} = \frac{3}{2} \frac{0+1}{(0+1)^{2}+1} + 2 \frac{1}{(0+1)^{2}+1}$$

$$= \frac{3}{2} e^{t} \cot t + 2e^{t} - int$$