Caculus Review

1. $\displaystyle\int x^2 e^{-3x} dx$

2. $\displaystyle\int \frac{lnx}{x} dx$

3. $\displaystyle\int \frac{3x+2}{x^2+x} dx$

4. $\int e^x \cos x\, dx$

5. $\int \dfrac{x^2 - 4x + 1}{(x^2 + 1)(x - 1)^2} dx$