

1. (partialfractions:22/7-pi)  
Compute  $\int_0^1 \frac{x^4(1-x)^4}{1+x^2} dx$ .
2. (partialfractions:(x-1)/(x^2+x))  
Compute  $\int \frac{w-1}{w^2+w} dw$
3. (partialfractions:p)  
Compute  $\int \frac{p+2}{p^2-1} dp$
4. (partialfractions:nopf)  
Compute  $\int \frac{x}{x^2-1} dx$ .
5. (partialfractions:simple1)  
Compute  $\int \frac{1}{x^2-4} dx$ .
6. (partialfractions:cts1)  
Compute  $\int \frac{1}{x^2+6x+10} dx$ .
7. (partialfractions:division1)  
Compute  $\int \frac{x^3}{x^2+2} dx$ .
8. (partialfractions:doubleroot1)  
Compute  $\int \frac{x}{x^2-2x+1} dx$ .
9. (partialfractions:expsub)  
Compute  $\int \frac{dt}{2+e^{2t}}$ .