

File...

Action...

Data...

sage



Typeset



Load 3-D Live



Use java for 3-D

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```
var('x')
q(x)=(x-1)/((x+1)*(x-2))
q(x).partial_fraction()
integrate(q(x),x)
```

$$\frac{2}{3} \log(x + 1) + \frac{1}{3} \log(x - 2)$$

```
var('x')
q(x)=(2*x-1)/(x^3-2*x^2)
print q(x).partial_fraction()
integrate(q(x),x)
```

$$\frac{3}{4}/(x - 2) - \frac{3}{4}/x + \frac{1}{2}/x^2$$

$$-\frac{1}{2x} + \frac{3}{4} \log(x - 2) - \frac{3}{4} \log(x)$$

```
var('x')
q(x)=(x+1)/(x^2+x+1)
print q(x).partial_fraction()
integrate(q(x),x)
```

$$(x + 1)/(x^2 + x + 1)$$

$$\frac{1}{3} \sqrt{3} \arctan\left(\frac{1}{3} \sqrt{3}(2x + 1)\right) + \frac{1}{2} \log(x^2 + x + 1)$$