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In[1]:= p = 1/(x^6 + 1);
In[2]:= Factor[p]
Out[2]= 1/(1 + x^2) (1 - x^2 + x^4)

In[6]:= Apart[p]
Out[6]= 1/(3 (1 + x^2)) + (2 - x^2)/(3 (1 - x^2 + x^4))

In[7]:= I1 = 1/(3 (1 + x^2));
I2 = (2 - x^2)/(3 (1 - x^2 + x^4));

In[9]:= Integrate[I1, x]
Out[9]= ArcTan[x]/3

In[10]:= Integrate[I2, x]
Out[10]= 1/(6 Sqrt[6]) (-Sqrt[-1 - I Sqrt[3]] (-3 I + Sqrt[3]) ArcTan[(1 - I Sqrt[3]) x] - Sqrt[-1 + I Sqrt[3]] (3 I + Sqrt[3]) ArcTan[(1 + I Sqrt[3]) x])

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