

In[20]:= **Integrate**[x, x]

Out[20]= $\frac{x^2}{2}$

In[21]:= **Integrate**[**Cos**[x] **Sin**[x], x]

Out[21]= $-\frac{1}{2} \cos[x]^2$

In[23]:= **Integrate**[(1 + x) / (2 x^3 + x), x]

Out[23]= $\frac{\text{ArcTan}[\sqrt{2} x]}{\sqrt{2}} + \text{Log}[x] - \frac{1}{2} \text{Log}[1 + 2 x^2]$

In[24]:=

D[$\frac{\text{ArcTan}[\sqrt{2} x]}{\sqrt{2}} + \text{Log}[x] - \frac{1}{2} \text{Log}[1 + 2 x^2]$, x]

Out[24]= $\frac{1}{x} + \frac{1}{1 + 2 x^2} - \frac{2 x}{1 + 2 x^2}$

In[29]:=

Simplify[$\frac{1}{x} + \frac{1}{1 + 2 x^2} - \frac{2 x}{1 + 2 x^2}$]

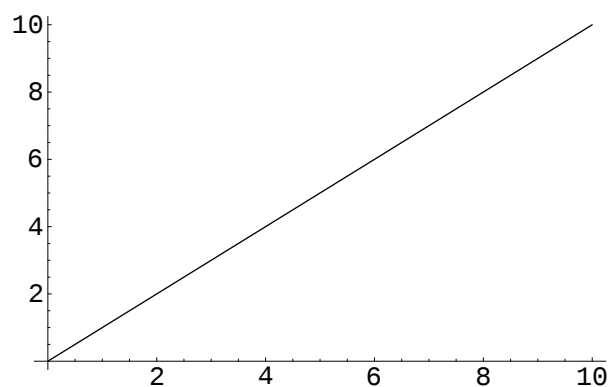
Out[29]= $\frac{1 + x}{x + 2 x^3}$

In[30]:= **Integrate**[x, {x, 0, 10}]

Out[30]= 50

In[31]:=

Plot[x, {x, 0, 10}]



Out[31]= - Graphics -