

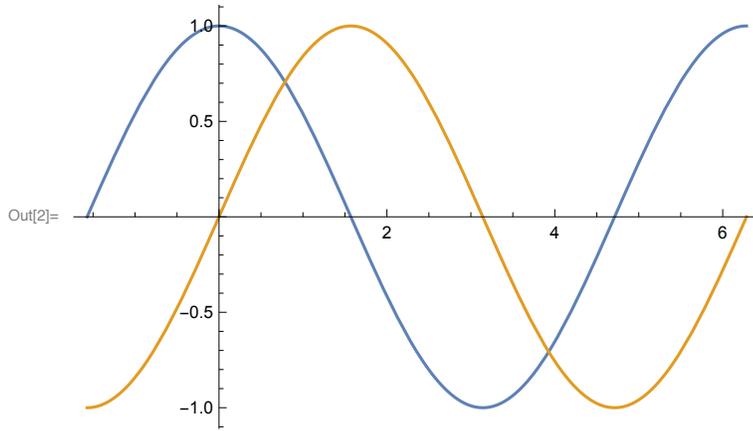
(\* Quiz 46 | Problem 1 \*)

```
In[3]:= Integrate[(x + 3) (x - 1), {x, -2, -1}]
```

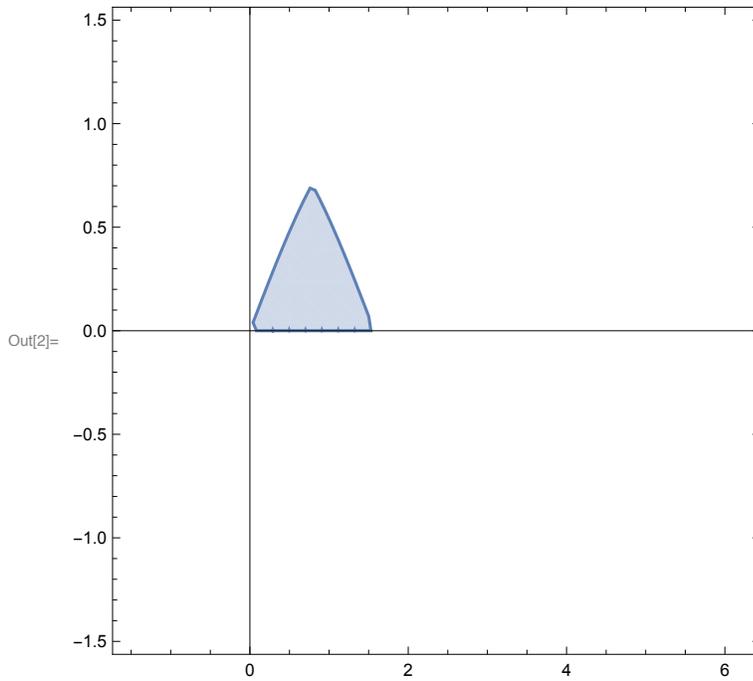
Out[3]=  $-\frac{11}{3}$

(\* Quiz 46 | Problem 2 \*)

```
In[2]:= Plot[{Cos[x], Sin[x]}, {x, -Pi / 2, 2 Pi}]
```



```
In[2]:= RegionPlot[0 < x < Pi / 2 && 0 < y < Sin[x] && 0 < y < Cos[x],  
{x, -Pi / 2, 2 Pi}, {y, -1.5, 1.5}, Axes -> True]
```



```
In[1]:= Integrate[2 (Sin[x]) ^ 2, {x, 0, Pi / 4}] + Integrate[2 (Cos[x]) ^ 2, {x, Pi / 4, Pi / 2}]
```

```
Out[1]=  $\frac{1}{2} (-2 + \pi)$ 
```