

**MAT143 – Cálculo para Ciências Biológicas**  
**Respostas da Lista de Exercícios 10**

1.  $\frac{d}{dx} \arccos x = -\frac{1}{\sqrt{1-x^2}}$

2. (a)  $\frac{1}{\sqrt{10}} \arctan \frac{\sqrt{10}}{2}x + C$

(b)  $\frac{1}{2} \ln(5+x^2) + C$

(c)  $\frac{1}{2} \ln(4+x^2) - \frac{1}{2} \arctan \frac{x}{2} + C$

(d)  $\arctan(x+1) + C$

(e)  $\frac{1}{8} \arctan \frac{x^2}{4} + C$

(f)  $\frac{5}{2} \operatorname{arcsen} 2x + C$

(g)  $\frac{1}{2} \operatorname{arcsen} x^2 + C$