## Lista de Revisão para a Prova – Integrais

f)  $\frac{1}{3} \left( -\cos\left(\frac{t}{2}\right) + 1\right)^6 + c$ 

h)  $(x^2 - x + 1)e^x + c$ 

i)  $\sin x - \frac{\sin^3 x}{3} + c$ 

g)  $x^2e^x + c$ 

1)

a) 
$$\frac{x^{33}}{33} - 12\sqrt{x} + \frac{4x^6}{3} - \frac{1}{x} - \frac{x^2}{2} - 4x + c$$

b) 
$$\frac{x^3}{3} + 2x - 7 \ln|x| + c$$

c) 
$$\frac{e^x}{2} + \frac{2}{5}x^2\sqrt{x} + c$$

d) 
$$-\cot x + c$$

e) 
$$\sin(t) - \sec(t) + c$$

4) 
$$s(t) = 4 - 5t + t^2 - t^3$$

5) 
$$\frac{37}{12}$$
 u.a.

7)

a) 
$$-\frac{1}{4}x^2 + \frac{1}{2}x^2 \ln x + c$$

b) 
$$-\ln|x+1| + x + c$$

c) 
$$\frac{3x+4}{3}(\ln(3x+4)-1)+c$$

d) 
$$\frac{1}{3}(2x+1)^{3/2}+c$$

e) 
$$(2x+1)(15x^2-6x+2)\frac{\sqrt{2x+1}}{105}+c$$

e) 
$$(2x+1)(15x^2-6x+2)\frac{\sqrt{2x+1}}{105}+c$$

8) 
$$\frac{16}{105}$$
 u.a.