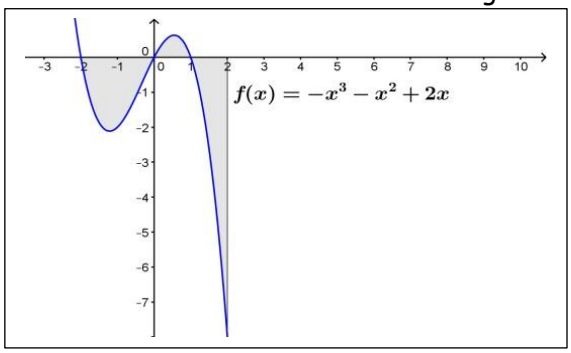
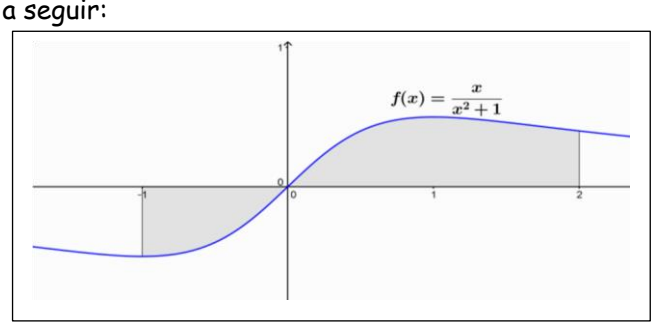
UNISINOS

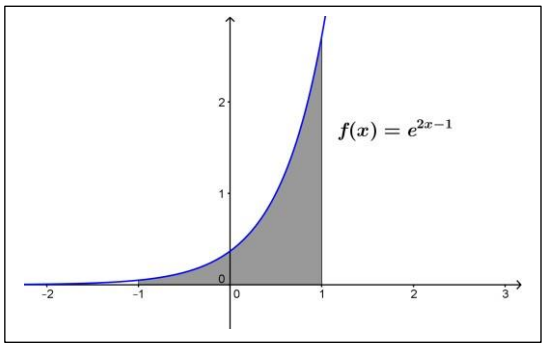
1. Calcule as áreas das regiões esboçadas a seguir:

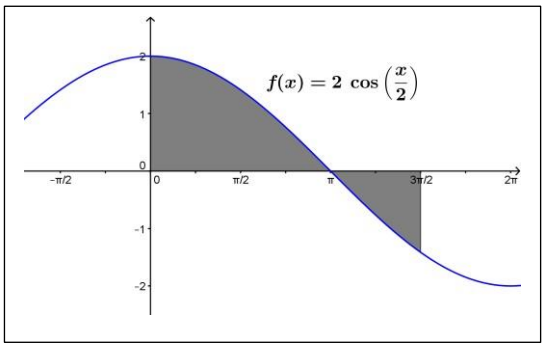




R: 6,16 u.a.

R: 1,15 u.a.



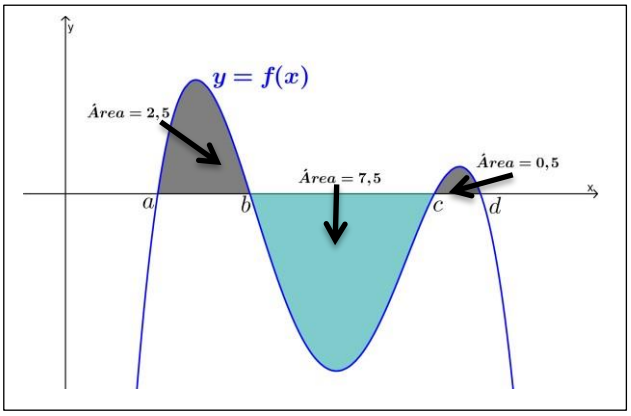


R: 1,3342 u.a.

R: 5,17

2. Use as áreas mostradas na figura para determinar:

a) $\int_a^b f(x)dx$ b) $\int_b^c f(x)dx$ c) $\int_c^d f(x)dx$ d) $\int_a^d f(x)dx$



3. Calcule as áreas das regiões compreendidas entre as curvas das funções e nos intervalos indicados:

a) $y = -x^2 + 6x, \quad [-1, 3]$ R: 21,33 u.a.

b) $y = \sqrt{x+6}, \quad [-6, 3]$ R: 18 u.a.

c) $y = x^2 - x - 6, \quad [-3, 2]$ R: 21,5 u.a.