

1) Find the solution of the following integral. (2 points)

$$\int_4^9 \frac{1}{\sqrt{x+2} - \sqrt{x}} dx \quad (1)$$

hint: By performing one simplification you might change this integral to what you are familiar with!

2) Evaluate the following integral.

$$\int \arctan(x) + x \sin(x) dx \quad (2)$$