

Homework Assignment #11

(due Sa, Sep 12, 2020, 11pm, via gradescope)

1. Griffiths 2.25

Hint: $\int \frac{dx}{\sqrt{a^2+x^2}} = \ln(x + \sqrt{a^2+x^2})$

2. Griffiths 2.28

Hints: choose field point P on z -axis; use law of cosines; ensure that $\sqrt{\dots}$ is positive.

3. Griffiths 2.30 b

4. Griffiths 2.34 a,b