MATH 1B WEEK 3, TUESDAY

Exercise 1.
$$\int \frac{x^2}{\sqrt{9-x^2}} dx$$

Exercise 2.
$$\int_0^a \frac{dx}{(a^2 + x^2)^{3/2}}$$
, for a constant $a > 0$.

Exercise 3.
$$\int \frac{dx}{\sqrt{x^2 + 2x + 5}}$$

Exercise 4.
$$\int \sqrt{1-x^4}dx$$

Exercise 5.
$$\int \frac{x}{\sqrt{x^2 - 7}} dx$$

Exercise 6.
$$\int_0^1 \frac{dx}{(x^2+1)^2}$$

Exercise 7.
$$\int_0^2 \frac{dt}{\sqrt{4+t^2}}$$