## Worksheet on §7.4

Compute the following integrals. You will need partial fractions for some of them.

(1) 
$$\int \frac{x^2 - 8x + 3}{2(x - 2)(x + 1)^2} dx$$

(2) 
$$\int \frac{6x^2 - 8x + 11}{(2x+1)(2x^2+5)} dx$$

(3) 
$$\int_{1}^{3} \frac{2x^3 + 4x^2 + 3x + 11}{(x+1)^2(x^2+4)} dx$$

$$(4) \int \frac{x}{\sqrt{2-3x^2}} \ dx$$

$$(5) \int \frac{1}{\sqrt{2-3x^2}} \ dx$$