Homework 11

1. Find the indefinite integral using the substitution $x = 4\sin\theta$.

$$\int \frac{1}{(16 - x^2)^{\frac{3}{2}}} dx$$

2. Find the integral.

$$\int \cos^5 x \sin x \, dx$$

3. Use partial fractions to find the integral.

$$\int \frac{5 - x}{2x^2 + x - 1} \mathrm{d}x$$