

## BÀI TẬP BUỔI 6

Tìm các tích phân bất định sau

$$100. \int \frac{2x-3}{\sqrt{3x^2+x+1}} dx$$

$$101. \int \frac{3x-4}{\sqrt{1+3x-x^2}} dx$$

$$102. \int \sqrt{2x^2+4x+1} dx$$

$$103. \int \sqrt{6+3x-2x^2} dx$$

$$104. \int \frac{dx}{4\sin x + 3\cos x + 5}$$

$$105. \int \frac{dx}{\cos^6 x}$$

Tính các TPXD

$$106. \int_0^2 |1-x| dx$$

$$107. \int_0^{\sqrt{3}} x \arctan x dx$$

$$108. \int_0^a x^2 \sqrt{a^2-x^2} dx$$

$$109. \int_{-1}^1 \frac{x dx}{x^2+x+1}$$

$$110. \int_1^9 x \sqrt[3]{1-x} dx$$

$$111. \int_0^{2\pi} \frac{dx}{(2+\cos x)(3+\cos x)}$$

$$112. \int_{-1}^1 \frac{dx}{(e^x+1)(x^2+1)}$$

$$113. \int_{-\frac{\pi}{4}}^{\frac{\pi}{4}} \frac{x^7-3x^5+7x^3-x+1}{\cos^2 x} dx$$