

Practice with antiderivatives of inverse tangent

$$2) \int \frac{1}{4+x^2} dx$$

$$4) \int \frac{1}{16+x^2} dx$$

$$a) \int_1^2 \frac{dx}{x^2+1} =$$

$$1. \int \frac{2}{x^2+1} dx$$

$$1. \int \frac{3}{x^2+9} dx$$

$$1. \int \frac{40}{x^2+25} dx$$

$$(a) \int \frac{dx}{1+4x^2};$$

$$4. \int \frac{12}{1+9x^2} dx$$

$$(c) \int \frac{x dx}{4+9x^4}.$$

$$9. \int \frac{t}{t^4+25} dt$$

$$11. \int \frac{e^{2x}}{4+e^{4x}} dx$$

$$14. \int \frac{\sin x}{7+\cos^2 x} dx$$