

Seydnas L. Noreja
BSECE 1-6H

March 18, 2021

$$\begin{aligned} 1.) & \int \frac{dx}{1+4x^2} \\ &= \int \frac{dx}{1+(2x)^2} \\ &= \frac{1}{2} \int \frac{2dx}{1+(2x)^2} \\ &= \frac{1}{2} \tan^{-1} 2x + C \end{aligned}$$

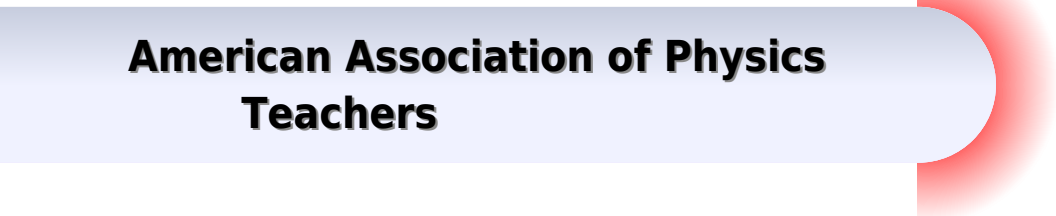
$$\begin{aligned} 3.) & \int \frac{dx}{x^2 - 4x + 13} \\ &= \int \frac{dx}{x^2 - 4x + 2^2 + 13 - 4} \\ &= \int \frac{dx}{(x-2)^2 + 9} \\ & \quad \begin{matrix} a^2 = 9 & u = x-2 \\ a = 3 & du = dx \end{matrix} \\ &= \int \frac{du}{u^2 + a^2} \\ &= \frac{1}{a} \tan^{-1} \frac{u}{a} + C \\ &= \frac{1}{3} \tan^{-1} \frac{x-2}{3} + C \end{aligned}$$

$$\begin{aligned} 2.) & \int \frac{(4-x)dx}{\sqrt{16-x^2}} \\ &= \int \frac{4dx}{\sqrt{4^2-x^2}} - \int \frac{xdx}{\sqrt{16-x^2}} \\ &= 4 \int \frac{dx}{\sqrt{4^2-x^2}} - \frac{1}{2} \int \frac{2xdx}{\sqrt{16-x^2}} \\ &= 4 \sin^{-1} \frac{x}{4} - \frac{1}{2} (16-x^2)^{-1/2} \\ &= 4 \sin^{-1} \frac{x}{4} - \frac{1}{2} \frac{(16-x^2)^{1/2}}{\frac{1}{2}} \\ &= 4 \sin^{-1} \frac{x}{4} - \sqrt{16-x^2} + C \end{aligned}$$

$$\begin{aligned} 4.) & \int \frac{dx}{\sqrt{4-9x^2}} \\ & \quad u = 3x ; \frac{du}{3} = dx \\ &= \int \frac{\frac{du}{3}}{\sqrt{2^2-(3x)^2}} \\ &= \frac{1}{3} \int \frac{du}{\sqrt{2^2-(3x)^2}} \\ &= \frac{1}{3} \sin^{-1} \frac{3x}{2} + C \end{aligned}$$

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