AP Calculus – Quiz: Integration, U-Substitution, and Integration by Parts

$$1. \int \left(5x^2 + \cos x \sin x\right) dx$$

$$3. \int \frac{4^x}{\ln 16} dx$$

$$2. \int \frac{16}{x\sqrt{(4x)^2 - 1}} dx$$

$$4. \int \frac{x^2 + 3x}{x} dx$$

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5. 
$$\int \cos^2\left(\frac{x}{3}\right) dx$$

$$7. \int \sqrt{x+1} \left(3x+4\right) dx$$

$$6. \int_{5}^{6} \frac{3x - 7}{\left(6x^2 - 28x\right)^2} dx$$

8. 
$$\int (3x+1)^2 e^{3x} dx$$