Quiz 1 Practice (Again!)

Evaluate each integral. Show all work.

1. Evaluate $\int e^{3x} \cos(2x)\, dx$.

2. Evaluate $\int \sin^5 x \cos^6 x\, dx$.

3. Evaluate $\int \frac{\sqrt{9x^2 - 4}}{x^2}\, dx$.

4. Evaluate $\int \frac{x^3}{(x^2+1)^2}\, dx$.

5. Evaluate $\int \frac{x^2 + 7x + 1}{(x-1)^2(x+2)}\, dx$.

6. Evaluate $\int x \arctan x\, dx$.

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