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1. (1 pt) Evaluate the definite integral

$$\int_5^{14} \sin^2(2x) \cos^2(2x) dx$$

2. (1 pt) Evaluate the definite integral.

$$\int_0^{\pi/2} \sin^5 x \cos^{20} x dx$$

3. (1 pt) Evaluate the indefinite integral.

$$\int 25 \cos^3(22x) dx$$

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4. (1 pt) Evaluate the indefinite integral.

$$\int 209 \cos^4(11x) dx$$

$$+ C$$

5. (1 pt) Evaluate the indefinite integral

$$\int \sin(18x) \sin(9x) dx$$

6. (1 pt) Evaluate the definite integral.

$$\int_0^{\pi/45} \frac{\sec^9(15x)}{\cot(15x)} dx$$
