Answers only. Don't simplify or include a constant. **6** or more exactly right for full credit.

1. Compute $\displaystyle\int \left(4\sin(4v) + \frac{2}{v^2} + \frac{5}{\sqrt{1-v^2}}\right) dv$.

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2. Compute $\displaystyle\int_2^e \left(\frac{9w^3 - 5}{w}\right) dw$.

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3. Compute $\displaystyle\int \sin(3y)e^{6\cos(3y)}\, dy$.

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4. Compute $\displaystyle\int_1^4 \frac{v}{5v^2 - 4}\, dv$.

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5. Compute $\displaystyle\int 6\arcsin(4t)\, dt$.

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6. Compute $\displaystyle\int \frac{-6y+2}{y^2-2y}\, dy$.

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7. Compute $\displaystyle\int \frac{18u+6}{u^2-4u+29}\, du$.