

Warm Up - after Section 7.1 notes

Evaluate each antiderivative

1.  $\int \left( 5x^3 - \frac{6}{x^2} + 4 \right) dx$

$$\int (5x^3 - 6x^{-2} + 4) dx$$
$$\frac{5x^4}{4} + 6x^{-1} + 4x + C$$

3.  $\int \cos(3x) dx$

$$\frac{1}{3} \sin(3x) + C$$

2.  $\int \frac{5}{x+1} dx$

$$= 5 \int \frac{1}{x+1} dx$$
$$= 5 \ln|x+1| + C$$

4.  $\int e^{\frac{1}{4}x} dx$

$$= 4e^{\frac{1}{4}x} + C$$

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