Warm Up - after Section 7.1 notes

Evaluate each antiderivative

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

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

$\dfrac{5x^4}{4} + 6x^{-1} + 4x + C$

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

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

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

$= 5 \int \dfrac{1}{x+1}\, dx$

$= 5 \ln|x+1| + C$

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

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