

Calculus Basic Integration

Lesson 306 | Calculus AB | Basic integration and net change

<https://www.youtube.com/watch?v=gvpj60CORU>

Original practice aligned to the saved video title.

Name: _____ Date: _____ Show your reasoning.

01

Find an antiderivative of $14 \cdot x^2 + 9$.

02

Find an antiderivative of $3 \cdot x^7 + 7$.

03

Find an antiderivative of $3 \cdot x^7 + 13$.

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Name: _____ Date: _____ Show your reasoning.

04

Find an antiderivative of $8 \cdot x^6 + 7$.

05

Find an antiderivative of $13 \cdot x^6 + 9$.

06

Find an antiderivative of $13 \cdot x^6 + 8$.

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01 Find an antiderivative of $14x^2 + 9$.

Integrate each power using $\int x^p dx = x^{(p+1)}/(p+1)$. An antiderivative is $x \cdot (14x^2 + 27)/3 + C$. Differentiate to check.

02 Find an antiderivative of $3x^7 + 7$.

Integrate each power using $\int x^p dx = x^{(p+1)}/(p+1)$. An antiderivative is $x \cdot (3x^7 + 56)/8 + C$. Differentiate to check.

03 Find an antiderivative of $3x^7 + 13$.

Integrate each power using $\int x^p dx = x^{(p+1)}/(p+1)$. An antiderivative is $x \cdot (3x^7 + 104)/8 + C$. Differentiate to check.

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04

Find an antiderivative of $8 \cdot x^6 + 7$.

Integrate each power using $\int x^p dx = x^{(p+1)}/(p+1)$. An antiderivative is $x \cdot (8 \cdot x^6 + 49)/7 + C$. Differentiate to check.

05

Find an antiderivative of $13 \cdot x^6 + 9$.

Integrate each power using $\int x^p dx = x^{(p+1)}/(p+1)$. An antiderivative is $x \cdot (13 \cdot x^6 + 63)/7 + C$. Differentiate to check.

06

Find an antiderivative of $13 \cdot x^6 + 8$.

Integrate each power using $\int x^p dx = x^{(p+1)}/(p+1)$. An antiderivative is $x \cdot (13 \cdot x^6 + 56)/7 + C$. Differentiate to check.