Task card 1 Antiderivatives & Definite Integra...

Find the antiderivative: $\int(2x)\,dx$

Task card 2 Antiderivatives & Definite Integra...

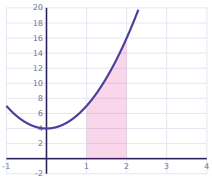
Find the antiderivative: $\int(4x^3)\,dx$

Task card 3 Antiderivatives & Definite Integra...

Evaluate the definite integral $\int$ from 0 to 1 of $(6x)\,dx$.

Task card 4 Antiderivatives & Definite Integra...

Find the area of the shaded region under $y = 3x^2 + 4$ from $x = 1$ to $x = 2$.

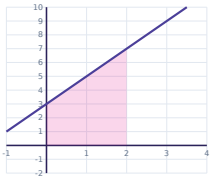


Task card 5 Antiderivatives & Definite Integra...

Find the antiderivative: $\int(9x^2)\,dx$

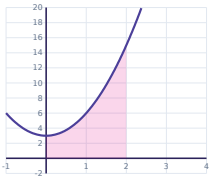
Task card 6 Antiderivatives & Definite Integra...

Find the area of the shaded region under $y = 2x + 3$ from $x = 0$ to $x = 2$.



Task card 7 Antiderivatives & Definite Integra...

Find the area of the shaded region under $y = 3x^2 + 3$ from $x = 0$ to $x = 2$.



Task card 8 Antiderivatives & Definite Integra...

Evaluate the definite integral $\int$ from 1 to 4 of $(2x)\,dx$.

Task card 9 Antiderivatives & Definite Integra...

Find the antiderivative: $\int(6x^2 + 4x)\,dx$

Task card 10 Antiderivatives & Definite Integra...

Find the antiderivative: $\int(9x^2 + 2x)\,dx$

Task card 11 Antiderivatives & Definite Integra...

Evaluate the definite integral $\int$ from 2 to 5 of $(9x^2 + 2x)\,dx$.

Task card 12 Antiderivatives & Definite Integra...

Find the antiderivative: $\int(6x^2 + 1)\,dx$

Task card 13 Antiderivatives & Definite Integra...

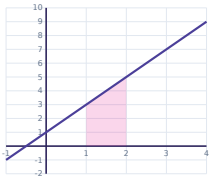
Evaluate the definite integral ∫ from 2 to 3 of $(6x^2 + 1)\,dx$.

Task card 14 Antiderivatives & Definite Integra...

Evaluate the definite integral ∫ from 2 to 5 of $(3x^2 + 1)\,dx$.

Task card 15 Antiderivatives & Definite Integra...

Find the area of the shaded region under $y = 2x + 1$ from $x = 1$ to $x = 2$.



Task card 16 Antiderivatives & Definite Integra...

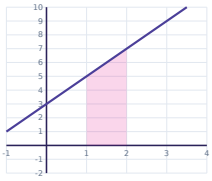
Find the antiderivative: $\int(8x^3 + 2)\,dx$

Task card 17 Antiderivatives & Definite Integra...

Evaluate the definite integral ∫ from 1 to 3 of $(4x^3 - 3x^2)\,dx$.

Task card 18 Antiderivatives & Definite Integra...

Find the area of the shaded region under $y = 2x + 3$ from $x = 1$ to $x = 2$.

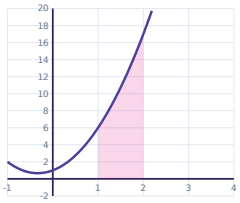


Task card 19 Antiderivatives & Definite Integra...

Evaluate the definite integral ∫ from 2 to 4 of $(12x^3 + 6x^2)\,dx$.

Task card 20 Antiderivatives & Definite Integra...

Find the area of the shaded region under $y = 3x^2 + 2x + 1$ from $x = 1$ to $x = 2$.



Task card 21 Antiderivatives & Definite Integra...

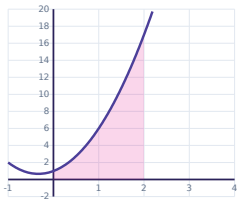
Find the antiderivative: $\int(-8x^3 + 1)\,dx$

Task card 22 Antiderivatives & Definite Integra...

Find the antiderivative: $\int(4x^3 + 6x)\,dx$

Task card 23 Antiderivatives & Definite Integra...

Find the area of the shaded region under $y = 3x^2 + 2x + 1$ from $x = 0$ to $x = 2$.



Task card 24 Antiderivatives & Definite Integra...

Find the antiderivative: $\int(8x^3)\,dx$

Antiderivatives & Definite Integrals Task Cards

Recording sheet · Grade 12 · For an antiderivative, include + C (like x^3 + 2x + C). For a definite integral or area, give the number.

Name: _____ Date: _____

Scan to check your answers

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Antiderivatives & Definite Integrals Task Cards: Answer Key

Grade 12 · Easy

The answers online

1. $x^2 + C$	**2.** $x^4 + C$	**3.** 3
4. 11	**5.** $3x^3 + C$	**6.** 10
7. 14	**8.** 15	**9.** $2x^3 + 2x^2 + C$
10. $3x^3 + x^2 + C$	**11.** 372	**12.** $2x^3 + x + C$
13. 39	**14.** 120	**15.** 4
16. $2x^4 + 2x + C$	**17.** 54	**18.** 6
19. 832	**20.** 11	**21.** $-2x^4 + x + C$
22. $x^4 + 3x^2 + C$	**23.** 14	**24.** $2x^4 + C$