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Basic Reverse Rules for Antiderivative	
1)	$\int 1dx$ (or just $\int dx$) = $x + C$ (because the derivative of x is 1)
2)	$\int x^n dx = \frac{x^{n+1}}{n+1} + C$ ($n \neq -1$)
3)	$\int \frac{dx}{x} = \ln x + C$ (rule 2 for $n = -1$)
4)	$\int e^x dx = e^x + C$
5)	$\int a^x dx = \frac{1}{\ln a} a^x + C$
6)	$\int \sin x dx = -\cos x + C$
7)	$\int \cos x dx = \sin x + C$
8)	$\int \sec^2 x dx = \tan x + C$
9)	$\int \csc^2 x dx = -\cot x + C$
10)	$\int \sec x \tan x dx = \sec x + C$
11)	$\int \csc x \cot x dx = -\csc x + C$
12)	$\int \frac{dx}{\sqrt{a^2 - x^2}} = \arcsin \frac{x}{a} + C$
13)	$\int \frac{dx}{a^2 + x^2} = \frac{1}{a} \arcsin \frac{x}{a} + C$
14)	$\int \frac{dx}{x\sqrt{x^2 - a^2}} = \frac{1}{a} \operatorname{arcsec} \left \frac{x}{a} \right + C$

Derivative Form	Antiderivative Form
$\frac{d}{dx} x = 1$	$\int 1 dx = x + C$
$\frac{d}{dx} x^n = nx^{n-1}$	$\int nx^{n-1} dx = x^n + C$
$\frac{d}{dx} \sin x = \cos x$	$\int \cos x dx = \sin x + C$
$\frac{d}{dx} \cos x = -\sin x$	$\int -\sin x dx = \cos x + C$
$\frac{d}{dx} \tan x = \sec^2 x$	$\int \sec^2 x dx = \tan x + C$
$\frac{d}{dx} \cot x = -\csc^2 x$	$\int -\csc^2 x dx = \cot x + C$
$\frac{d}{dx} \sec x = \sec x \tan x$	$\int \sec x \tan x dx = \sec x + C$
$\frac{d}{dx} \csc x = -\csc x \cot x$	$\int -\csc x \cot x dx = \csc x + C$
$\frac{d}{dx} e^x = e^x$	$\int e^x dx = e^x + C$
$\frac{d}{dx} a^x = a^x \ln a$	$\int a^x dx = \frac{a^x}{\ln a} + C$
$\frac{d}{dx} \ln x = \frac{1}{x}$	$\int \frac{1}{x} dx = \ln x + C$
$\frac{d}{dx} \arcsin x = \frac{1}{\sqrt{1-x^2}}$	$\int \frac{1}{\sqrt{1-x^2}} dx = \arcsin x + C$
$\frac{d}{dx} \arctan x = \frac{1}{1+x^2}$	$\int \frac{1}{1+x^2} dx = \arctan x + C$
$\frac{d}{dx} \operatorname{arccot} x = -\frac{1}{1+x^2}$	$\int -\frac{1}{1+x^2} dx = \operatorname{arccot} x + C$
$\frac{d}{dx} \operatorname{arcsec} x = \frac{1}{x\sqrt{x^2-1}}$	$\int \frac{1}{x\sqrt{x^2-1}} dx = \operatorname{arcsec} x + C$
$\frac{d}{dx} \operatorname{arccsc} x = -\frac{1}{x\sqrt{x^2-1}}$	$\int -\frac{1}{x\sqrt{x^2-1}} dx = \operatorname{arccsc} x + C$

$f(x) = 1$	$f'(x) = 0$	$F(x) = x + C$	[Note: If $f(x) = 0$, then $F(x) = C$]
$f(x) = 2x + 5$	$f'(x) = 2$	$F(x) = x^2 + 5x + C$	
$f(x) = 4x - 7x^2$	$f'(x) = 4 - 14x$	$F(x) = 2x^2 - 7x^3 + C$	
$f(x) = 3x^3 - 2x^4$	$f'(x) = 9x^2 - 8x^3$	$F(x) = x^4 - 2x^5 + C$	
$f(x) = x^2 - x^{10}$	$f'(x) = 2x - 10x^9$	$F(x) = \frac{x^3}{3} - \frac{x^{11}}{11} + C$	
$f(x) = 5x^4$	$f'(x) = 20x^3$	$F(x) = 5x^5 + C$	
$f(x) = 6x^{100}$	$f'(x) = 600x^{99}$	$F(x) = 6x^{101} + C$	
$f(x) = 6x^3 - 3\sin x$	$f'(x) = 18x^2 - 3\cos x$	$F(x) = 2x^4 - 3\sin x + C$	
$f(x) = 3\sin(2x - 1)$	$f'(x) = 6\cos(2x - 1)$	$F(x) = \frac{3}{2}\sin(2x - 1) + C$	
$f(x) = 2\sin^2(x)$	$f'(x) = 2 + 2(-\sin x)\cos x$ $= 2 - \sin 2x$	$F(x) = 2\sin x - \frac{1}{2}\cos 2x + C$	

Triangle Base x-coordinate of antiderivative	Area y-coordinate of antiderivative
1 (green triangle)	0.5*1*2 = 1
2 (blue/green triangle)	0.5*2*4 = 4
3 (blue/green/red triangle)	0.5*3*6 = 9

☐ $f(x) = \sin(x) + 1$
☐ $f(x) = \sin(x) + 2$
☐ $f(x) = \sin(x)$
☐ $f(x) = -\sin(x) + 1$

- ☐ $2x^2+9x+31$
- ☐ $6x^2+21$
- ☐ $2x^2+9x-31$
- ☐ $6x^2-21$

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