

$$f(x) = (x-3)^5$$

$$f'(x) = ?$$

$$\frac{1}{2}$$

$\int 3x - 4 dx$	$24x - e^x$	$f(x) = 4xi - e^x$ Find $f''(x)$	$\frac{d(4t - 3tI)}{dt}$	$4 - 6t$	The gradient of the normal to $y = 3 - xi$ at $(1, 2)$
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$$xi - 2xI + c$$

$$\int e^{\frac{x}{2}} dx$$

$2e^{\frac{x}{2}} + c$	$3\cos(3x)$	Differentiate $\sin(3x)$	$\frac{d(\ln 7y)}{dy}$	$\frac{1}{y}$	2
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$$\int_0^2 2x - 1 dx$$

No

$\frac{d(3t - 4tI)}{dt}$	The tangent to $y = 2xi$ at $(1, 2)$	$y = 4x - 2$	$\frac{1}{(x+1)i}$	Differentiate $\frac{x}{x+1}$	Is $y = xi$ an increasing function?
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$3 - 8t$					
$f(x) = e^{kx}$					
$f'(x) = ?$					
$\int e^{2x} dx$	$3\cos(x)$	Differentiate $3\sin(x)$	$\frac{-1}{(x-1)}$	Differentiate $\frac{x}{x-1}$	ke^{kx}
$\frac{1}{2}e^{2x} + c$					
(1, 3)					
The turning point of $y = (x-1)\ln(3x) + 3$	Differentiate $\ln(3x)$	$\frac{1}{x}$	Is $y = xi$ an increasing function?	Yes	$2\sec(2x)$
					$f(x) = \tan(2x)$ $f'(x) = ?$
					Differentiate $e^x(x+1)$
$5(x-3)^4$	$y = 12x - 23$	The tangent to $y = 3x\ln(x)$ at (2, 1)	$(x\ln(2x) + 2x - 1)e^x$	Differentiate $e^x(x\ln(x) - 1)$	$(x\ln(2x) + 2x + 1)e^x$