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Differentiation + Integration

For each of the following  
 a) Differentiate it  
 b) Integrate it

1) $\cos x$	2) $\sin x$	3) $\tan x$
4) $\cos 5x$	5) $\sin 7x$	6) $\tan 3x$
7) $e^{4x}$	8) $5e^{3x}$	9) $\cos^2 x$
10) $\sin^2 x$	11) $\tan^2 x$	12) $(x+3)^2$
13) $(2x+5)^2$	14) $\frac{1}{x^2+5}$	15) $\frac{1}{2x+3}$
16) $\ln x$	17) $x \cos x$	18) $3x^2 e^x$
19) $\sqrt{x+1}$	20) $x \ln x$	21) $x^2 \sin x$

for  $x$  in the interval  $0 < x < \frac{\pi}{2}$  (7)

a)  $\cos(A+B) = \cos A \cos B - \sin A \sin B$   
 $\cos(A-B) = \cos A \cos B + \sin A \sin B$

$\cos 2x = 2 \cos^2 x - 1$   
 $\cos 2x = \text{LHS}$

$\cos\left(x + \frac{\pi}{2}\right) = \frac{1}{\cos\left(x + \frac{\pi}{2}\right)}$   
 $\cos\left(x + \frac{\pi}{2}\right) = 1$

$A = x + \frac{\pi}{2}$  ✓  
 $B = x + \frac{\pi}{2}$  ✓




1.  $y = x^2 + 3x - 5$

$\frac{dy}{dx} = 2x + 3$

2.  $y = 4x^3 - 2x^2 + 7x - 1$

$\frac{dy}{dx} = 12x^2 - 4x + 7$

3.  $y = \frac{1}{2}x^2 + 3x - 4$

$\frac{dy}{dx} = x + 3$

4.  $y = 5x^4 - 3x^2 + 2x - 7$

$\frac{dy}{dx} = 20x^3 - 6x + 2$

5.  $y = x^2 + 2x + 1$

$\frac{dy}{dx} = 2x + 2$

6.  $y = 3x^2 - 4x + 5$

$\frac{dy}{dx} = 6x - 4$

7.  $y = x^3 + 2x^2 - 5x + 1$

$\frac{dy}{dx} = 3x^2 + 4x - 5$

8.  $y = 2x^2 + 3x - 4$

$\frac{dy}{dx} = 4x + 3$

9.  $y = x^2 + 3x - 5$

$\frac{dy}{dx} = 2x + 3$

10.  $y = 4x^3 - 2x^2 + 7x - 1$

$\frac{dy}{dx} = 12x^2 - 4x + 7$

11.  $y = \frac{1}{2}x^2 + 3x - 4$

$\frac{dy}{dx} = x + 3$

12.  $y = 5x^4 - 3x^2 + 2x - 7$

$\frac{dy}{dx} = 20x^3 - 6x + 2$

13.  $y = x^2 + 2x + 1$

$\frac{dy}{dx} = 2x + 2$

14.  $y = 3x^2 - 4x + 5$

$\frac{dy}{dx} = 6x - 4$

15.  $y = x^3 + 2x^2 - 5x + 1$

$\frac{dy}{dx} = 3x^2 + 4x - 5$

16.  $y = 2x^2 + 3x - 4$

$\frac{dy}{dx} = 4x + 3$

17.  $y = x^2 + 3x - 5$

$\frac{dy}{dx} = 2x + 3$

18.  $y = 4x^3 - 2x^2 + 7x - 1$

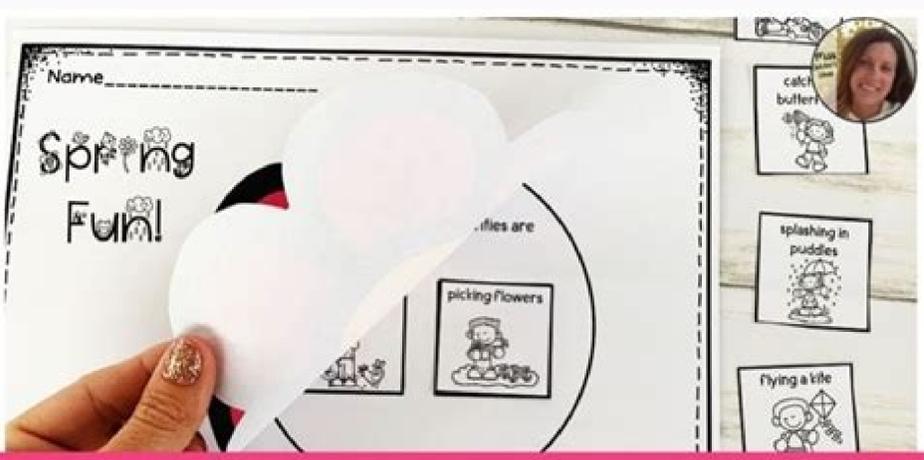
$\frac{dy}{dx} = 12x^2 - 4x + 7$

19.  $y = \frac{1}{2}x^2 + 3x - 4$

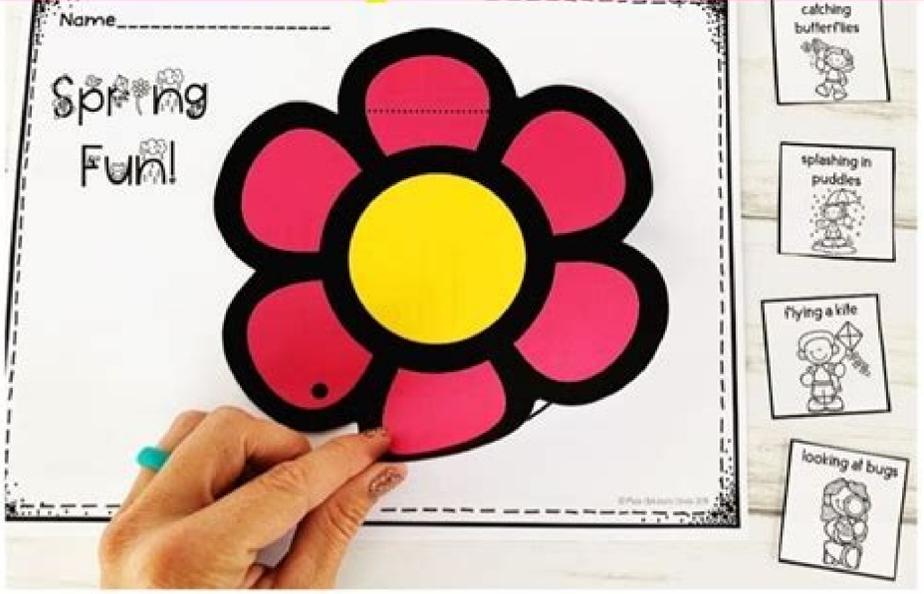
$\frac{dy}{dx} = x + 3$

20.  $y = 5x^4 - 3x^2 + 2x - 7$

$\frac{dy}{dx} = 20x^3 - 6x + 2$



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