**Standard Derivatives Matching Activities**

\*needs to be cut out. This is the solution. The Third Page contains 20 incorrect derivatives

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| --- | --- |
| $$f\left(x\right)= sin(x)$$ | $$f'\left(x\right)= cos(x)$$ |
| $$f\left(x\right)= cos(x)$$ | $$f'\left(x\right)= -sin(x)$$ |
| $$f\left(x\right)= tan(x)$$ | $$f'\left(x\right)= sec^{2}(x)$$ |
| $$f\left(x\right)= sec(x)$$ | $$f'\left(x\right)= sec(x)tan(x)$$ |
| $$f\left(x\right)= cosec(x)$$ | $$f'\left(x\right)= -cosec(x)cot(x)$$ |
| $$f\left(x\right)= cot(x)$$ | $$f'\left(x\right)= -cosec^{2}(x)$$ |
| $$f\left(x\right)= e^{x}$$ | $$f'\left(x\right)= e^{x}$$ |
| $$f\left(x\right)= ln(x)$$ | $$f'\left(x\right)= \frac{1}{x}$$ |
| $$f\left(x\right)= a^{x}$$ | $$f'\left(x\right)= a^{x}ln(a)$$ |
| $$f\left(x\right)= -sin(x)$$ | $$f^{'}(x)= -cos(x)$$ |

|  |  |
| --- | --- |
| $$f\left(x\right)= -cos(x)$$ | $$f'\left(x\right)= sin(x)$$ |
| $$f\left(x\right)= -tan(x)$$ | $$f^{'}(x)= -sec^{2}(x)$$ |
| $$f\left(x\right)= -sec(x)$$ | $$f^{'}(x)= -sec(x)tan(x)$$ |
| $$f\left(x\right)= -cosec(x)$$ | $$f'\left(x\right)= cosec(x)cot(x)$$ |
| $$f\left(x\right)= -cot(x)$$ | $$f'\left(x\right)= cosec^{2}(x)$$ |
| $$f\left(x\right)= -e^{x}$$ | $$f'\left(x\right)= -e^{x}$$ |
| $$f\left(x\right)=- ln(x)$$ | $$f^{'}(x)= -\frac{1}{x}$$ |
| $$f\left(x\right)= -a^{x}$$ | $$f^{'}(x)= -a^{x}ln(a)$$ |

|  |  |
| --- | --- |
| $$f'\left(x\right)= xe^{x-1}$$ | $$f'\left(x\right)= -xe^{x-1}$$ |
| $$f'\left(x\right)=tan(x)$$ | $$f^{'}(x)= -cot(x)$$ |
| $$f^{'}(x)= a^{x}ln(x)$$ | $$f^{'}(x)= -a^{x}ln(x)$$ |
| $$f'\left(x\right)= sec$$ | $$f^{'\left(x\right)}= -sec$$ |
| $$f^{'\left(x\right)}=-tan(x)$$ | $$f^{'}(x)= cot(x)$$ |
| $$f^{'}(x)= cosec$$ | $$f^{'}\left(x\right)= -cosec$$ |
| $$f'\left(x\right)= sec\left(x\right)cot(x)$$ | $$f^{'\left(x\right)}= -sec\left(x\right)cot(x)$$ |
| $$f'\left(x\right)= cosec\left(x\right)tan(x)$$ | $$f^{'\left(x\right)}= -cosec\left(x\right)tan(x)$$ |
| $$f^{'}(x)= a^{x}$$ | $$f^{'}(x)= -a^{x}$$ |
| $$f^{'}(x)= xa^{x-1}$$ | $$f^{'}(x)= -xa^{x-1}$$ |