|  |  |  |  |
| --- | --- | --- | --- |
| $$x$$ | $$h(x)$$ | $$h'(x)$$ | $$h''(x)$$ |
| -3 | 2 | -1 | 0.5 |
| -1 | 8 | 0 | -3 |
| 1 | 5 | 1/2 | 4 |
| 2 | 4 | 3 | 1 |
| 3 | 5 | -4 | 1/3 |
| 5 | -5 | -1 | 3 |
| 8 | 14 | -2 | 2 |

\*$h$ is twice differentiable for all real numbers.

$j\left(x\right)=4e^{3x}-\frac{5}{2}x$ $g\left(x\right)=\left\{\begin{matrix}3x^{2}-5x+2&x\leq 2\\\sqrt{5x+6}&x>2\end{matrix}\right.$



$$y=k(x)$$

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