|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **X** | **f(x)** | **g(x)** | **f’(x)** | **g’(x)** |
| **3** | 1 | 8 | -3 | -5 |
| **6** | 3 | -2 | 4 | 5 |
| **8** | -1 | 3 | π | 4 |
| **1** | 2 | -6 | 5 | 0 |

**Find the derivative for each at x = 3**

1. f(x)g(x) 2. $\frac{f(x)}{g(x)}$

3. $\frac{g(x)}{f(x)}$ 4. (f(x))²

5. $\sqrt{f(x)}$ 6. $\sqrt{f\left(x\right)+g(x)}$

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **X** | **f(x)** | **g(x)** | **f’(x)** | **g’(x)** |
| **3** | 1 | 8 | -3 | -5 |
| **6** | 3 | -2 | 4 | 5 |
| **8** | -1 | 3 | π | 4 |
| **1** | 2 | -6 | 5 | 0 |

 **Find the derivative of each at x = 3**

7. $\frac{1}{\sqrt[3]{g(x)}}$ 8. $\frac{f(x)}{f\left(x\right)+g(x)}$

9. g(g(x)) 10. x⁴$\sqrt{f(x)}$

11. f(2x) 12. [g(3x-1)]³