Fill In The Blanks…

**Evaluating Composite Two-Step Functions**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Question** | **Input** | **1st Function** | **2nd Function** | **Output** | **Answer** |
| $$f\left(x\right)=x^{2}+2$$$$g\left(x\right)=3x-1$$Find $fg(4)$ |  |  |  |  |  |  | $$fg\left(4\right)=$$ |
| $$f\left(x\right)=3\sqrt{x}$$$$g\left(x\right)=2x+5$$Find $gf(9)$ |  |  |  |  |  |  | $$gf\left(9\right)=$$ |
| $$f\left(x\right)=\frac{1}{x}-3$$$$g\left(x\right)=2x+4$$Find $fg(-1)$ |  |  |  |  |  |  | $$fg\left(-1\right)=$$ |
| $$g\left(x\right)=\frac{x}{2}+1$$$$h\left(x\right)=4x^{2}$$Find $hg(0.5)$ |  |  |  |  |  |  |  |
| $$f\left(x\right)=x^{2}+3$$$$g\left(x\right)=2x-7$$Find $fg(5)$ |  |  |  |  |  |  |  |