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| **Fill in the Blanks** | **Inverse Two-Step Functions** |

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| **Question** | **Function Machines** | **Answer** |
| $$f\left(x\right)=3x-1$$Find $f^{-1}(x)$ |  |  |  |  | $$f^{-1}\left(x\right)=$$$$\frac{x+1}{3}$$ |
|  |  |  |  |
| $$f\left(x\right)=x^{2}-5$$Find $f^{-1}(x)$ |  |  |  |  | $$f^{-1}\left(x\right)=$$ |
|  |  |  |  |
| $$f\left(x\right)=\frac{x-3}{2}$$Find $f^{-1}(x)$ |  |  |  |  | $$f^{-1}\left(x\right)=$$ |
|  |  |  |  |
| $$f\left(x\right)=5(x+2)$$Find $f^{-1}(x)$ |  |  |  |  | $$f^{-1}\left(x\right)=$$ |
|  |  |  |  |
| $$g\left(x\right)=\frac{x}{4}+7$$Find $g^{-1}(x)$ |  |  |  |  | $$g^{-1}\left(x\right)=$$ |
|  |  |  |  |
| $$f\left(x\right)=5x^{2}$$Find $f^{-1}(x)$ |  |  |  |  | $$f^{-1}\left(x\right)=$$ |
|  |  |  |  |
| $$h\left(x\right)=\frac{1}{x}-2$$Find $h^{-1}(x)$ |  |  |  |  | $$h^{-1}\left(x\right)=$$ |
|  |  |  |  |
| $$f\left(x\right)=(x-4)^{3}$$Find $f^{-1}(x)$ |  |  |  |  | $$f^{-1}\left(x\right)=$$ |
|  |  |  |  |