|  |  |
| --- | --- |
| $$f\left(x\right)=2x-7$$ | $$f\left(x\right)=\frac{x+7}{2}$$ |
| $$f\left(x\right)=3x^{2}-1$$ | $$f\left(x\right)=\sqrt{\frac{x+1}{3}}$$ |
| $$f\left(x\right)=\frac{x-5}{3}$$ | $$f\left(x\right)=3x+5$$ |
| $$f\left(x\right)=\frac{1}{4}x+2$$ | $$f\left(x\right)=4(x-2)$$ |
| $$f\left(x\right)=x^{3}+1$$ | $$f\left(x\right)=\sqrt[3]{x-1}$$ |
| $$f\left(x\right)=6(x-4)$$ | $$f\left(x\right)=\frac{x}{6}+4$$ |
| $$f\left(x\right)=\frac{2}{x}$$ | $$f\left(x\right)=2 (\frac{1}{x})$$ |
| $$f\left(x\right)=10^{x}$$ | $$f\left(x\right)=log\_{10}x$$ |
| $$f\left(x\right)=0.2x-8$$ | $$f\left(x\right)=5(x+8)$$ |

These cards are just samples. You might want to modify the types of expressions to be appropriate for your course.

Function Cards

For the function card that you have:

* Use words to describe the operations involved and the order in which they get done.
* Find four ordered pairs that belong to the function.
* Identify the domain of the function.
* Identify the range of the function.
* Carefully sketch a graph of the function.



Mystery Functions



Can you determine rules for f(x) and g(x) given that they are both linear functions?

Mystery Functions

Y3=Y1+Y2

Y4=Y1-Y2

Y5=Y1 ∙Y2

Can you determine Y1 and Y2 given that they are both linear?



Practice with Inverses

This is the link to the Desmos activity center activity about inverses.

https://teacher.desmos.com/activitybuilder/custom/56490a9249a8c4c90e500219

Student.Desmos.com