Complete all questions on this sheet for credit. Show work in order to receive credit.

1. Find the domain: $f\left(x\right)=\sqrt{2x-5}$

Domain: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Write an equation for the graph pictured below:



 Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Given the functions: $g\left(x\right)=2x+3$ and $h\left(x\right)=x^{2}+5x-4$, find and completely simplify $(h∘g)(x)$.

 Composition: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. For the function *f* given by $f\left(x\right)= \frac{3}{5}x-8$, find $f^{-1}(x)$.

 $f^{-1}(x)$: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_