1. Find the distance between the points (4,-1) and (-5,3)
2. Find the midpoint of the line segment with endpoints (5,-2) and (-3,12)
3. Graph the equation $y=2\left(x-1\right)^{2}$
4. $Graph the equation 3x-y=-1$
5. Find the equation of the line with slope 0 and y-intercept (0,-2). Write your answer in the form y=mx+b
6. Write the equation of the line passing through (5,2) and (4,-2)
7. Find the vertex of the graph of the parabola f(x)=-$x^{2}+4x-5$
8. $Given the function f\left(x\right)=3x^{2} its range is what?$
9. $Evaluate g\left(f\left(1\right)\right)where f\left(x\right)=4x-5 and g\left(x\right)=2x+3$
10. $Determine the x-intercept of the graph of x=y^{2}-4$
11. $Determine the center of the circle \left(x+2\right)^{2}+\left(y-1\right)^{2}=16$
12. $Given f\left(x\right)=x^{2}-4 if x<-1$

 3x+2if x$\geq 1$ find f(-1)

1. Which set of ordered pairs (x,y) define y as a function of x?
2. $\left\{\left(4,7\right), \left(3,7\right), \left(2,5\right), \left(8,-8\right)\right\}$
3. {(5,1), (-3,4), (-3,2)}
4. Determine the domain of the function f(x) = $\sqrt{6-x}$
5. Consider all the ordered pairs shown on Graph A and all the ordered pairs shown on Graph B. Which set of ordered pairs defines a function?



1. The length of the base of a triangle is eight times the length of its altitude. Express the area (A) of the triangle as a function of its altitude x.



1. Find the slope of the line passing through the points (-1,-2) and (1,4)

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| For any two parallel lines:  |
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| **A.** | the slopes are zero  |
| **B.** | the slopes are reciprocals  |
| **C.** | the slopes are positive  |
| **D.** | the slopes are equal  |

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1. Find the value of x in the domain of f(x)=-2x-3 for which f(x)=3
2. If the quadratic function f(x)=$2x^{2}$-4x+6 is graphed the range has

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| 1. a maximum value
 |
| **B.** | a minimum value  |
| **C.** | no maximum or minimum value  |
| **D.** | many maximum and minimum values  |