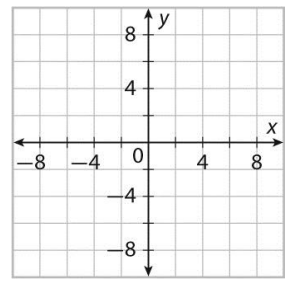


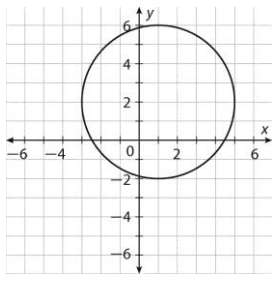
1. Is each of the following a function?

- A (2, 1), (4, 3), (6, 5), (8, 7)
 Yes No
- B (2, 1), (4, 3), (6, 5), (2, 7)
 Yes No
- C (2, 1), (4, 1), (6, 5), (8, 7)
 Yes No

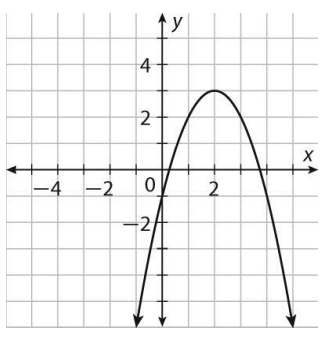
6. Graph the inequality $y > -\frac{1}{2}x + 4$.



2. Is the relation represented on the graph below a function? Explain your answer.



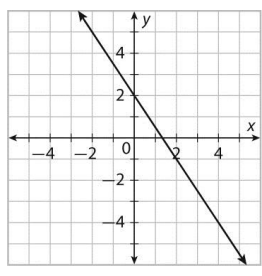
3. The graph of $f(x) = -x^2 + 4x - 1$ is below.



Find the value of $f(x)$ when $x = 0$.

4. Solve for z: $\frac{5z+30}{3} = 2y$

5. Write an equation for the line.



7. Kurt works at a cafe and earns \$16 per hour. On Wednesday, he worked t hours at the cafe, and his neighbor paid him \$5 per hour to babysit for b hours. Which expression best represents the amount Kurt earned on Wednesday?
- A $16t + 5$ C $16t + 5b$
 B $16t - 5b$ D $16b + 5t$

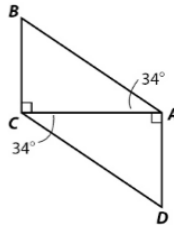
8. A cell phone company charges \$45 per month for unlimited calls and \$0.25 per text message. Another cell phone company charges \$0.15 per text message and \$70 per month for unlimited calls.
- a. Write an equation to represent the number of text messages sent in a month that would make each plan cost the same amount.
- _____
- b. Solve the equation and interpret the solution.

9. Juan is making birdhouses to sell at a craft show. The cost of making the birdhouses is \$80 plus \$6.25 per birdhouse. He will sell them for \$16 each. Write and solve an inequality to find the number of birdhouses he must sell to make a profit.

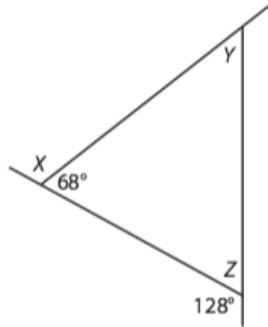
10.

Complete the proof to prove that $\triangle ABC \cong \triangle CDA$.

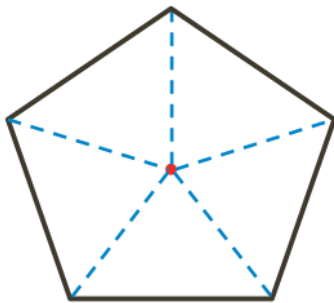
Statements	Reasons
1. $\angle ACD \cong \angle \underline{\hspace{2cm}}$	1.
2.	2. Given
3.	3.
4. $\triangle ABC \cong \triangle CDA$	4.



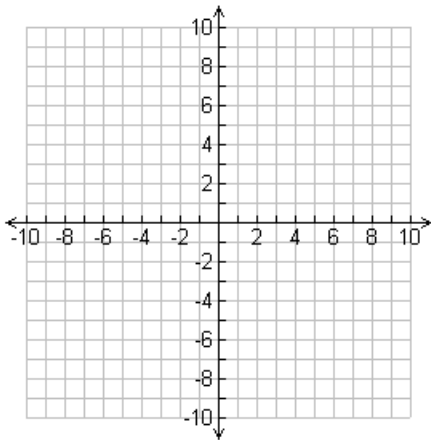
11. Find each angle measure.



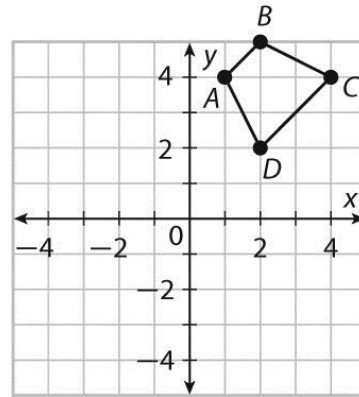
12. Which angle of rotation would map this regular pentagon onto itself?



13. Graph the lines $y = 5$ and $x = 2$



14. Rotate the figure 90° counterclockwise.



15. The Fresh and Green Company has a savings plan for employees. If an employee makes an initial deposit of \$1000, the company pays 8% interest compounded quarterly.

Write an exponential function that models the compound interest of this company.