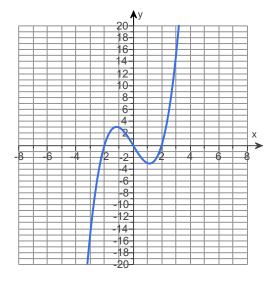
2. A. The intercept(s) is/are (0,0), (2,0), (-2,0).

(Type an ordered pair. Use a comma to separate answers as needed. Type an exact answer for each coordinate, using radicals as needed.)

 $\ensuremath{\mathsf{C}}.$ The graph is symmetric with respect to the origin.



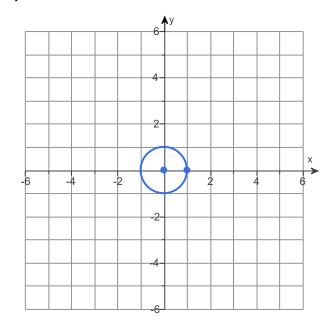
A. The solution set is {

24 5

.(Simplify your answer. Use a comma to separate answers as needed.)

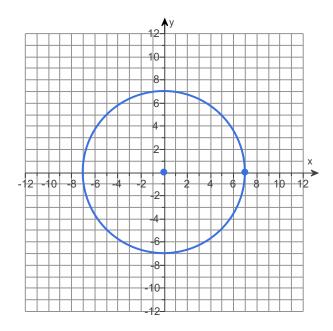
 $4 \cdot x^2 + y^2 = 1$

$$x^2 + y^2 - 1 = 0$$



5. (0,0)

7



A. The intercept(s) is/are (-7,0),(7,0),(0,-7),(0,7).

(Type an ordered pair. Use a comma to separate answers as needed. Type exact answers for each coordinate, using radicals as needed.)

6.
$$(x + 1)^2 + (y - 5)^2 = 13$$

7. [7,∞)

8. 3

10. A. Yes, there is a local maximum at -4, and it is 9. (Type an integer or a fraction.)

11. 5

$$y = 5x - 24$$

3

18

212

14. x + 2

0

Х

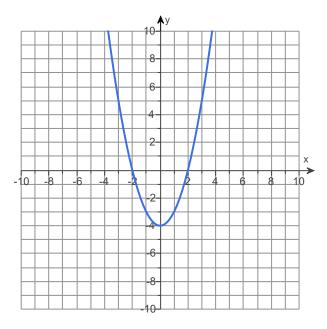
0

15. 2

5

-4

16.



$$(-\infty,\infty)$$

17. 500

>

500

18.
$$-W^2 + 200W$$

100

(1) yards.

10,000

(2) square yards.

19. 2
$\frac{1}{2}$
<u>3</u>
20. B. It is a polynomial of degree 4(Type an integer or a fraction.) A. The polynomial in standard form is $G(x) = 2x^4 - 4x^3 + 10x^2 - 16x + 8$ with leading term $2x^4$ and constant 8 (Simplify your answers. Use integers or fractions for any numbers in the expressions.)
21. $x^3 - 6x^2 - 9x + 54$
22. A. The graph shows a polynomial function. The real zero(s) is/are -3,3,4. The least degree the polynomial can have is 3. (Use a comma to separate answers as needed. Round to the nearest integer as needed.)

0,10

2

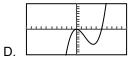
(1) touches

0

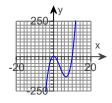
1

(2) crosses

10



(0,0),(6.67, -148.15)



A.

 $(-\infty,\infty)$

 $(-\infty,0],[6.67,\infty)$

[0,6.67]

24. -5i,4

25. A. The domain of R(x) is $\{x \mid x \neq -20\}$.

(Type an inequality in the form $x \ne 1$. Use integers or fractions for any numbers in the expression. Use a comma to separate answers as needed.)

26.	A. The domain of the function is $\{x \mid x \neq -4, x \neq 4\}$. (Type an inequality in the form $x \neq .$ Use integers or fractions for any numbers in the expression. Use a comma to separate answers as needed.)
	A. The range of the function is $\{y \mid y \leq 0, y > 3\}$. (Type an inequality. Use integers or fractions for any numbers in the expression. Use a comma to separate answers as needed.)
	A. The intercept(s) is/are (0,0). (Type an ordered pair. Use a comma to separate answers as needed.)
	A. The function has one horizontal asymptote, $y = 3$.(Type an equation.)
	B. The function has two vertical asymptotes. The leftmost asymptote is $x = -4$ and the rightmost asymptote is $x = 4$. (Type equations.)
	C. The function has no oblique asymptotes.
27.	B. The function has two vertical asymptotes. The leftmost asymptote is $x = -1$ and the rightmost asymptote is $x = 1$. (Type equations. Use integers or fractions for any numbers in the equations.)
	A. The function has one horizontal asymptote, $y = 0$. (Type an equation. Use integers or fractions for any numbers in the equation.)
	C. The function has no oblique asymptote.
28.	
	5 -1
	-2
29.	(-2,3)
30.	x
	B. No values should be excluded from the domain.
	x
	B. No values should be excluded from the domain.
	Yes
31.	Y.
0	A. x≠ 7 (Use a comma to separate answers as needed.)
	x
	A. x≠ -3 (Use a comma to separate answers as needed.)
	Yes



- C. The domain is $\left\{ x | x \neq \frac{3}{8} \right\}$. (Type integers or fractions. Use a comma to separate answers as needed.)
- C. The range is $\left\{y|y\neq\frac{7}{8}\right\}$. (Type integers or fractions. Use a comma to separate answers as needed.)
- B. The domain is $\left\{ x | x \neq \frac{7}{8} \right\}$. (Type integers or fractions. Use a comma to separate answers as needed.)
- A. The range is $\left\{ y | y \neq \frac{3}{8} \right\}$. (Type integers or fractions. Use a comma to separate answers as needed.)
- 33. -4
- 34. $e^{X} = 11$
- 35. <u>In 3</u>
- 36. $x^2 + 2 = 5^2$ - $\sqrt{23}$, $\sqrt{23}$
- $\log_{a}\left(\frac{uw^{4}}{v}\right)$
- 38. A. The solution set is **7** (Simplify your answer. Type an exact answer. Use a comma to separate answers as needed.)
- 39. A. The solution set is $\left\{\begin{array}{c|c} & \text{In 7} \\ \hline & \text{In 6} \end{array}\right\}$

(Simplify your answer. Use a comma to separate answers as needed. Use integers or fractions for any numbers in the expression. Type an exact answer, using radicals as needed.)