1. $\frac{29\pi}{12}$

---

2. -75

---

3. 541.05

(1) feet^2.

---

4. $-\frac{5}{13}$

$\frac{12}{5}$

$\frac{5}{12}$

$-\frac{13}{5}$

$-\frac{13}{12}$

---

5. 0

---

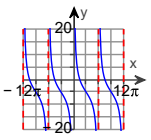
6. $\frac{31}{25}$

---

7. A. There are two equations; the equation when $A < 0$ is $y =$ $-6\sin\left(\frac{\pi}{2}x\right)$ and the equation when $A > 0$ is $y =$ $6\sin\left(\frac{\pi}{2}x\right)$.

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

---

8. 

C.

A. $\{x|x \neq 6k\pi, k \text{ is an integer}\}$

C. All real numbers

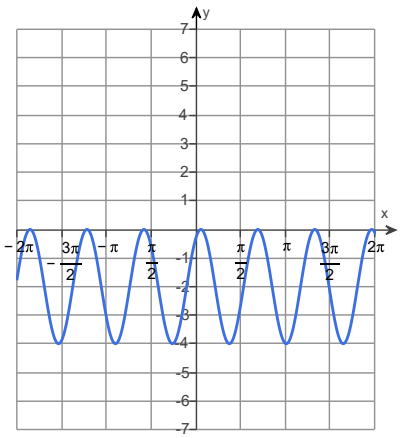
---

9. A. The amplitude is 2.

(Simplify your answer. Type an exact answer, using π as needed. Use integers or fractions for any numbers in the expression.)

2

$-\frac{1}{\pi}$



---

10. A. $\csc^{-1}(-1) =$ $-\frac{\pi}{2}$

(Simplify your answer. Type an exact answer, using π as needed. Use integers or fractions for any numbers in the expression.)

---

11. A. The solution set is $\left\{-\frac{11}{9}, -\frac{1}{3}\right\}$.

(Simplify your answer. Type an exact answer, using radicals as needed. Use a comma to separate answers as needed.)

---

12. A. The solution set is $\left\{\frac{\pi}{6}, \frac{5\pi}{6}\right\}$.

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

---

13. A. The solution set is $\left\{\frac{\pi}{3}, \frac{2\pi}{3}, \frac{4\pi}{3}, \frac{5\pi}{3}\right\}$.

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

---

14. -1

---

15. $\frac{1}{\cos\theta}$

---

16. $\frac{4}{5}$

---

17. 14.7

---

18. 67

13.01

14.11

---

19. A. A single triangle is produced, where B $\approx$ 7.71°, C $\approx$ 102.29°, and c $\approx$ 7.28.

---

20. 49.5

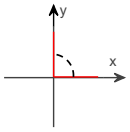
22.3

108.2

---

21. 7.52

---

22. 

B.

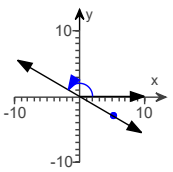
---

23. on the y-axis

---

24. D. $\left(-8, \frac{5\pi}{4}\right)$

---

25. 

D.

---

26. (0,11)

---

27. $\left(10, \frac{\pi}{3}\right)$

---

28. $\frac{1}{2}$

---

29. A. The solution is x = **−2**, y = **−3**, and z = **1**. (Type integers or simplified fractions.)

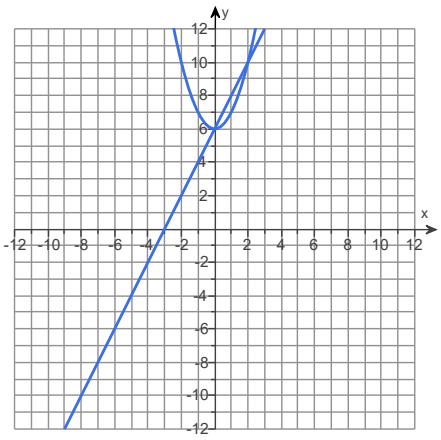
---

30. $-\frac{3}{x}+\frac{3}{x-5}$

---

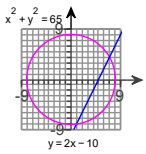
31. $\frac{\frac{7}{9}}{x+7}+\frac{\frac{2}{9}}{x-2}$

---

32. 

A. The graphs intersect at **(0,6),(2,10)**. (Type an ordered pair. Use a comma to separate answers as needed.)

---

33. 

D.

A. The graphs intersect at **(1, − 8), (7,4)**.
(Type an ordered pair. Use a comma to separate answers as needed. Type an exact answer, using radicals as needed. Simplify your answer.)

---

34. 78.73

---

35. 5

− 4

5

− 4

5

---

36. 5

10

20

40

80

---

37. $3n - 4$

125

---

38. -5000

$-8 \cdot 5^{n-1}$

---

39. $\frac{3}{1{,}024}$

---

40. Geometric

B. The value of the common ratio is **-7**. (Type an integer or a simplified fraction.)

A. The sum of the first 50 terms is **2.023×10^{42}**.
(Use scientific notation. Use the multiplication symbol in the math palette as needed. Round to three decimal places as needed.)

---

41. A. $\lim\limits_{x \to -2} \left(-3x^2\right) =$ **-12** (Type an exact answer.)

---

42. A. $\lim\limits_{x \to 0} \frac{x+8}{x^2+4} =$ **2**

---

43. A. $\lim\limits_{x \to 2} f(x) =$ **2**

---

44. B. The limit does not exist.

---

45. 2

3

---

46. ∞

---

47. A. $\lim\limits_{x \to 0} f(x) =$ **0**

---

48. A. No, because f is not defined at 2.

---

49. B. No, because f(c) is not defined.