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$\bullet$ $3(x-1) = 2 + 5(x-3)$	$\bullet$ $3(x-1) = 2 + 5(x-3)$	$\bullet$ $3(x-1) = 2 + 5(x-3)$	$\bullet$ $3(x-1) = 2 + 5(x-3)$
$\bullet$ $4(x-2) = 3 + 8(x-11)$	$\bullet$ $4(x-2) = 3 + 8(x-11)$	$\bullet$ $4(x-2) = 3 + 8(x-11)$	$\bullet$ $4(x-2) = 3 + 8(x-11)$
$\bullet$ $\frac{2x}{3} = 5$	$\bullet$ $\frac{2x}{3} = 5$	$\bullet$ $\frac{2x}{3} = 5$	$\bullet$ $\frac{2x}{3} = 5$
$\bullet$ $\frac{2}{3} \cdot \frac{1}{2} = \frac{1}{2}$	$\bullet$ $\frac{2}{3} \cdot \frac{1}{2} = \frac{1}{2}$	$\bullet$ $\frac{2}{3} \cdot \frac{1}{2} = \frac{1}{2}$	$\bullet$ $\frac{2}{3} \cdot \frac{1}{2} = \frac{1}{2}$
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1 The two angles shown form a right angle.
 Find the value of x that makes the equation true. Find the value of x .

2 The two angles shown form a right angle.
 Find the value of x that makes the equation true. Find the value of x .

3. $3(m-12) \div 3 + 9m \div 3$ 4. $-3(-12) = 7$
 5. $4(2b-3) + 3 + 8a = 11$ 6. $\frac{3(12-5)}{4} = -2$
 7. $\frac{10000}{100} = 5$ 8. $\frac{-100000}{100} = -2$
 9. $\frac{30}{6} = \frac{5}{1} \cdot \frac{6}{6}$ 10. $4 \cdot \frac{6}{2} = 3 \cdot 7$
 11. $\frac{3}{4} \cdot \frac{1}{2} = \frac{1}{2} \cdot \frac{3}{4}$ 12. $\frac{1}{2} \cdot \frac{10}{5} = \frac{1}{5} \cdot \frac{10}{2}$
 13. $\frac{1}{2} = 2m \div \frac{1}{2}$ 14. $\frac{1}{2} = \frac{3}{4} \cdot \frac{2}{2}$

The two angles shown form a right angle. Write and solve an equation to find the value of x .



Grade 7 Math
Integers

Name
Date

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1) Which number in the following pairs is smaller:

- A) 1, 24 B) 25, 21 C) 2, 22

2) Another company issues a split of Pts. 1791 on per ticket of business class while loses Pts. 159 on every ticket of economy class. If the company sold 30000 tickets of economy class, how many tickets should it sell for business class to break even?

3) Find the sum of the following integrals:

- A) $-56304 \text{ mrad} \cdot 75002 = ?$ B) $-52303 \text{ mrad} \cdot 70009 = ?$ C) $52304 \text{ mrad} \cdot 37504 = ?$

4. Find the successor of each of the following integers:

- A) $\cdot 77 =$ _____ B) $\cdot 20 =$ _____ C) $\cdot 91 =$ _____

5) Which number in the following pairs is larger: -17 , -28

All in the blanks

6) Which number in the following pairs is larger?

- A) $-17, -23 =$ B) $-7, -20 =$ C) $28, 2 =$

7) Find how many integers are there between

- A) $\cdot 2$ and $\cdot 4 =$ B) $\cdot 4$ and $\cdot 1 =$ C) $\cdot 2$ and $\cdot 3 =$ D) $\cdot 3$ and $\cdot 2 =$

8) Find the sum of the following integers

- A) $182.42 \text{ arc} \cdot 21254 =$ B) $27.02 \text{ arc} \cdot 39131 =$ C) $22.470 \text{ arc} \cdot 1316 =$

Check True/False

7) $|a + b| = |a| + |b|$ when a and b are integers and $a > b$

☐ True ☐ False

10) Every negative number is less than every rational number.

☐ True ☐ False

Creat. Training – Trg. Methods

Exemple _____

Beginning in cell #1, simplify the trigonometry expression. When you finish, circle your answer and hunt for it in advance in the circuit. Mark the next cell #2 and simplify the expression, hunt for the answer, and continue in this manner until you complete the circuit. Extra paper may be needed. Please attach.

Answer: $-\cos^2 \theta$ #1 $\frac{\sin \theta}{\sin^2 \theta - 1}$	Answer: $\cos^2 \theta$ # $\frac{\sin \theta}{\cos \theta} = \frac{\sin \theta}{\cos \theta}$
Answer: $-\cos(\theta)$ # $\frac{1 - \cos \theta}{\cos \theta}$	Answer: -1 # $\frac{\sin^2 \theta}{\sin^2 \theta - 1}$
Answer: $\cos \theta + \sin \theta$ # $\sin \theta \cos^2 \theta + \sin^3 \theta$	Answer: $-\sin^3 \theta + \cos^3 \theta$ # $\frac{\sin^2 \theta}{\cos^2 \theta}$
Answer: $-\sin^2 \theta$ # $\frac{\sin \theta}{\sin^2 \theta - 1}$	Answer: $-\cos(\theta) + \sin(\theta)$ # $\sin \theta \cos \theta + \cos \theta$



5. variable value changes in different expressions while the constant remains the same. Important points regarding algebraic expression formulas A variable can take any value. Algebra can also be used with qualifications such as linear algebra, elementary algebra, modern algebra. etc. $(x \hat{A} \hat{C} \text{ "a"} (x \hat{A} \hat{C} \text{ "b"} = x \hat{A} \hat{C} \text{ "a"} + b) + x \hat{A} \hat{B}12$. Any Nischolpage has 25 students apply math and reading and writing of anchoring standards while learning water distribution, use and preservation in California. The CBSE curriculum introduces algebraic identities for class 8 and algebraic expressions. $(x + a) (x \hat{A} \hat{C} \text{ "b"} = x \hat{A} \hat{C} \text{ "a"} + b) \hat{A} \hat{B}14$. Q4: What does the word "Algebra" mean? A: The word "Algebra" has several related meanings in mathematics. These examples will help you memorize the Class 8 algebraic expression formulas for class 8 include different algebraic identities for class 8 with examples provided below. $(A + B) \hat{A} \hat{B}15$. Q5: What is the value of x if $2x + 12 = 3x - 12$? Solution: $2x + 12 = 3x - 12$ $\Rightarrow 2x - 3x = -12 - 12$ $\Rightarrow -x = -24$ $\Rightarrow x = 24$. Q6: What is the value of x if $3x + 12 = 4x - 12$? Solution: $3x + 12 = 4x - 12$ $\Rightarrow 3x - 4x = -12 - 12$ $\Rightarrow -x = -24$ $\Rightarrow x = 24$. Q7: What is the value of x if $4x + 12 = 5x - 12$? Solution: $4x + 12 = 5x - 12$ $\Rightarrow 4x - 5x = -12 - 12$ $\Rightarrow -x = -24$ $\Rightarrow x = 24$. Q8: What is the value of x if $5x + 12 = 6x - 12$? Solution: $5x + 12 = 6x - 12$ $\Rightarrow 5x - 6x = -12 - 12$ $\Rightarrow -x = -24$ $\Rightarrow x = 24$. Q9: What is the value of x if $6x + 12 = 7x - 12$? Solution: $6x + 12 = 7x - 12$ $\Rightarrow 6x - 7x = -12 - 12$ $\Rightarrow -x = -24$ $\Rightarrow x = 24$. Q10: What is the value of x if $7x + 12 = 8x - 12$? Solution: $7x + 12 = 8x - 12$ $\Rightarrow 7x - 8x = -12 - 12$ $\Rightarrow -x = -24$ $\Rightarrow x = 24$. Q11: What is the value of x if $8x + 12 = 9x - 12$? Solution: $8x + 12 = 9x - 12$ $\Rightarrow 8x - 9x = -12 - 12$ $\Rightarrow -x = -24$ $\Rightarrow x = 24$. Q12: What is the value of x if $9x + 12 = 10x - 12$? Solution: $9x + 12 = 10x - 12$ $\Rightarrow 9x - 10x = -12 - 12$ $\Rightarrow -x = -24$ $\Rightarrow x = 24$. Q13: What is the value of x if $10x + 12 = 11x - 12$? Solution: $10x + 12 = 11x - 12$ $\Rightarrow 10x - 11x = -12 - 12$ $\Rightarrow -x = -24$ $\Rightarrow x = 24$. Q14: What is the value of x if $11x + 12 = 12x - 12$? Solution: $11x + 12 = 12x - 12$ $\Rightarrow 11x - 12x = -12 - 12$ $\Rightarrow -x = -24$ $\Rightarrow x = 24$. Q15: What is the value of x if $12x + 12 = 13x - 12$? Solution: $12x + 12 = 13x - 12$ $\Rightarrow 12x - 13x = -12 - 12$ $\Rightarrow -x = -24$ $\Rightarrow x = 24$. Q16: What is the value of x if $13x + 12 = 14x - 12$? Solution: $13x + 12 = 14x - 12$ $\Rightarrow 13x - 14x = -12 - 12$ $\Rightarrow -x = -24$ $\Rightarrow x = 24$. Q17: What is the value of x if $14x + 12 = 15x - 12$? Solution: $14x + 12 = 15x - 12$ $\Rightarrow 14x - 15x = -12 - 12$ $\Rightarrow -x = -24$ $\Rightarrow x = 24$. Q18: What is the value of x if $15x + 12 = 16x - 12$? Solution: $15x + 12 = 16x - 12$ $\Rightarrow 15x - 16x = -12 - 12$ $\Rightarrow -x = -24$ $\Rightarrow x = 24$. Q19: What is the value of x if $16x + 12 = 17x - 12$? Solution: $16x + 12 = 17x - 12$ $\Rightarrow 16x - 17x = -12 - 12$ $\Rightarrow -x = -24$ $\Rightarrow x = 24$. Q20: What is the value of x if $17x + 12 = 18x - 12$? Solution: $17x + 12 = 18x - 12$ $\Rightarrow 17x - 18x = -12 - 12$ $\Rightarrow -x = -24$ $\Rightarrow x = 24$. Q21: What is the value of x if $18x + 12 = 19x - 12$? Solution: $18x + 12 = 19x - 12$ $\Rightarrow 18x - 19x = -12 - 12$ $\Rightarrow -x = -24$ $\Rightarrow x = 24$. Q22: What is the value of x if $19x + 12 = 20x - 12$? Solution: $19x + 12 = 20x - 12$ $\Rightarrow 19x - 20x = -12 - 12$ $\Rightarrow -x = -24$ $\Rightarrow x = 24$. Q23: What is the value of x if $20x + 12 = 21x - 12$? Solution: $20x + 12 = 21x - 12$ $\Rightarrow 20x - 21x = -12 - 12$ $\Rightarrow -x = -24$ $\Rightarrow x = 24$. Q24: What is the value of x if $21x + 12 = 22x - 12$? Solution: $21x + 12 = 22x - 12$ $\Rightarrow 21x - 22x = -12 - 12$ $\Rightarrow -x = -24$ $\Rightarrow x = 24$. Q25: What is the value of x if $22x + 12 = 23x - 12$? Solution: $22x + 12 = 23x - 12$ $\Rightarrow 22x - 23x = -12 - 12$ $\Rightarrow -x = -24$ $\Rightarrow x = 24$. Q26: What is the value of x if $23x + 12 = 24x - 12$? Solution: $23x + 12 = 24x - 12$ $\Rightarrow 23x - 24x = -12 - 12$ $\Rightarrow -x = -24$ $\Rightarrow x = 24$. Q27: What is the value of x if $24x + 12 = 25x - 12$? Solution: $24x + 12 = 25x - 12$ $\Rightarrow 24x - 25x = -12 - 12$ $\Rightarrow -x = -24$ $\Rightarrow x = 24$. Q28: What is the value of x if $25x + 12 = 26x - 12$? Solution: $25x + 12 = 26x - 12$ $\Rightarrow 25x - 26x = -12 - 12$ $\Rightarrow -x = -24$ $\Rightarrow x = 24$. Q29: What is the value of x if $26x + 12 = 27x - 12$? Solution: $26x + 12 = 27x - 12$ $\Rightarrow 26x - 27x = -12 - 12$ $\Rightarrow -x = -24$ $\Rightarrow x = 24$. Q30: What is the value of x if $27x + 12 = 28x - 12$? Solution: $27x + 12 = 28x - 12$ $\Rightarrow 27x - 28x = -12 - 12$ $\Rightarrow -x = -24$ $\Rightarrow x = 24$. Q31: What is the value of x if $28x + 12 = 29x - 12$? Solution: $28x + 12 = 29x - 12$ $\Rightarrow 28x - 29x = -12 - 12$ $\Rightarrow -x = -24$ $\Rightarrow x = 24$. Q32: What is the value of x if $29x + 12 = 30x - 12$? Solution: $29x + 12 = 30x - 12$ $\Rightarrow 29x - 30x = -12 - 12$ $\Rightarrow -x = -24$ $\Rightarrow x = 24$. Q33: What is the value of x if $30x + 12 = 31x - 12$? Solution: $30x + 12 = 31x - 12$ $\Rightarrow 30x - 31x = -12 - 12$ $\Rightarrow -x = -24$ $\Rightarrow x = 24$. Q34: What is the value of x if $31x + 12 = 32x - 12$? Solution: $31x + 12 = 32x - 12$ $\Rightarrow 31x - 32x = -12 - 12$ $\Rightarrow -x = -24$ $\Rightarrow x = 24$. Q35: What is the value of x if $32x + 12 = 33x - 12$? Solution: $32x + 12 = 33x - 12$ $\Rightarrow 32x - 33x = -12 - 12$ $\Rightarrow -x = -24$ $\Rightarrow x = 24$. Q36: What is the value of x if $33x + 12 = 34x - 12$? Solution: $33x + 12 = 34x - 12$ $\Rightarrow 33x - 34x = -12 - 12$ $\Rightarrow -x = -24$ $\Rightarrow x = 24$. Q37: What is the value of x if $34x + 12 = 35x - 12$? Solution: $34x + 12 = 35x - 12$ $\Rightarrow 34x - 35x = -12 - 12$ $\Rightarrow -x = -24$ $\Rightarrow x = 24$. Q38: What is the value of x if $35x + 12 = 36x - 12$? Solution: $35x + 12 = 36x - 12$ $\Rightarrow 35x - 36x = -12 - 12$ $\Rightarrow -x = -24$ $\Rightarrow x = 24$. Q39: What is the value of x if $36x + 12 = 37x - 12$? Solution: $36x + 12 = 3$