
1. Chapter 0, Section 0.2, Question 006

Expand the given expression.

$$(x + y - r)(z + w - t)$$

$$(x + y - r)(z + w - t) =$$

2. Chapter 0, Section 0.2, Question 005

Expand the given expression.

$$(x - y)(z + w - t)$$

$$(x - y)(z + w - t) =$$

3. *Chapter 0, Section 0.2, Question 007

Expand the given expression.

$$(x +)^2$$

$$(x +)^2 =$$

4. *Chapter 0, Section 0.2, Question 012

Expand the given expression.

$$(x - y - z)^2$$

$$(x - y - z)^2 =$$

5. *Chapter 0, Section 0.2, Question 013

Expand the given expression.

$$(x +) (x -) (x +)$$

$$(x +) (x -) (x +) =$$

6. Chapter 0, Section 0.2, Question 017

Expand the following expression.

$$xy(x + y)\left(\frac{1}{x} - \frac{1}{y}\right)$$

$$xy(x + y)\left(\frac{1}{x} - \frac{1}{y}\right) =$$

7. *Chapter 0, Section 0.2, Question 023

Simplify the given expression as much as possible.

$$(m + n) + m$$

$$(m + n) + m =$$

8. *Chapter 0, Section 0.2, Question 024

Simplify the given expression as much as possible.

$$(m + (n + p)) + n$$

$$(m + (n + p)) + n =$$

9. *Chapter 0, Section 0.2, Question 030

Simplify the given expression as much as possible.

$$\frac{\cdot}{\cdot}$$

$$\frac{\cdot}{\cdot} =$$

10. *Chapter 0, Section 0.2, Question 031

Simplify the given expression as much as possible.

$$\frac{m+1}{n} + \frac{1}{n}$$

$$\frac{m+1}{n} + \frac{1}{n} =$$

11. *Chapter 0, Section 0.2, Question 036

Simplify the given expression as much as possible.

$$- \cdot \frac{n -}{ } + \cdot$$

$$- \cdot \frac{n -}{ } + \cdot =$$

12. *Chapter 0, Section 0.2, Question 038

Simplify the given expression as much as possible.

$$\frac{x -}{ } - \frac{ }{y +}$$

$$\frac{x -}{y +} =$$

13. *Chapter 0, Section 0.2, Question 042

Simplify the expression as much as possible.

$$\frac{w -}{w^3} - \frac{w(w -)}{w(w -)}$$

$$\frac{w -}{w^3} - \frac{w(w -)}{w(w -)} =$$

14. Chapter 0, Section 0.2, Question 044

Simplify the given expression as much as possible.

$$\frac{1}{y} \left(\frac{1}{x-y} - \frac{1}{x+y} \right)$$

$$\frac{1}{y} \left(\frac{1}{x-y} - \frac{1}{x+y} \right) =$$

15. *Chapter 0, Section 0.2, Question 048

Simplify the given expression as much as possible.

$$\frac{\frac{x-y}{y+}}{\frac{y-y}{x+}}$$

$$\frac{\frac{x-y}{y+}}{\frac{y-y}{x+}} =$$

16. *Chapter 0, Section 0.3, Question 005

Find all numbers x satisfying the given equation.

$$|x - | =$$

Enter the exact answers in increasing order.

$$x =$$

$$\boxed{-/2} \text{ or } x = \boxed{/2}$$

17. *Chapter 0, Section 0.3, Question 008

Find all numbers x satisfying the given equation.

$$\left| \frac{x + }{x - } \right| =$$

Enter the exact answers in increasing order.

$$x =$$

$$\boxed{/} \text{ or } x = \boxed{}$$

18. *Chapter 0, Section 0.3, Question 021

Write the given union as a single interval.

$$[-,] \cup (-,)$$

19. *Chapter 0, Section 0.3, Question 034

A copying machine works with paper that is 8.5 inches wide, provided that the error in the paper width is less than $\frac{1}{8}$ inch.

(a) Write an inequality using absolute values and the length W of the paper that gives the condition that the paper's width fails the requirements of the copying machine.

(b) Write the set of numbers satisfying the inequality in part **(a)** as a union of two intervals.

20. *Chapter 0, Section 0.3, Question 036

Write the given set as an interval or as a union of two intervals.

$$\left\{ x: |x + | < \frac{1}{2} \right\}$$

21. *Chapter 0, Section 0.3, Question 042

Write the given set as an interval or as a union of two intervals.

$$\left\{ x: |x - | < \frac{1}{2} \right\}$$

22. *Chapter 0, Section 0.3, Question 046

Write the given set as an interval or as a union of two intervals.

$$\{ x: |x + | \geq \}$$

23. *Chapter 0, Section 0.3, Question 048

Write the given intersection as a single interval.

$$[-, -) \cap [-, -)$$

24. *Chapter 0, Section 0.3, Question 050

Write the given intersection as a single interval.

$$(-, -) \cap [-, -]$$

25. *Chapter 0, Section 0.3, Question 058

Find all numbers x satisfying the given inequality.

$$\frac{x -}{x +} < 2$$

Enter the exact answer in interval notation.