**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.

$$(2x + 5)^2$$

$(2x+5)^2 =$

**4. Chapter 0, Section 0.2, Question 012**

Expand the given expression.

$$(x-6y-7z)^2$$

$(x-6y-7z)^2 =$

**5. Chapter 0, Section 0.2, Question 013**

Expand the given expression.

$$(x+3)(x-5)(x+12)$$

$(x+3)(x-5)(x+12) =$

**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.

$$3(7m+9n)+7m$$

$3(7m+9n)+7m=$

**8. Chapter 0, Section 0.2, Question 024**

Simplify the given expression as much as possible.

$$6(7m+2(n+4p))+2n$$

$6(7m + 2(n + 4p)) + 2n =$

**9. Chapter 0, Section 0.2, Question 030**

Simplify the given expression as much as possible.

$$\frac{\frac{16}{15}}{\frac{17}{8}}$$

$\frac{\frac{16}{15}}{\frac{17}{8}} =$

**10. Chapter 0, Section 0.2, Question 031**

Simplify the given expression as much as possible.

$$\frac{m+1}{5} + \frac{6}{n}$$

$\frac{m+1}{5} + \frac{6}{n} =$

**11. Chapter 0, Section 0.2, Question 036**

Simplify the given expression as much as possible.

$$\frac{7}{8} \cdot \frac{n-6}{9} + \frac{13}{7}$$

$$\frac{7}{8} \cdot \frac{n-6}{9} + \frac{13}{7} =$$

**12. Chapter 0, Section 0.2, Question 038**

Simplify the given expression as much as possible.

$$\frac{x-4}{8} - \frac{7}{y+2}$$

$$\frac{x-4}{8} - \frac{7}{y+2} =$$

**13. Chapter 0, Section 0.2, Question 042**

Simplify the expression as much as possible.

$$\frac{w-1}{w^3} - \frac{4}{w(w-6)}$$

$$\frac{w-1}{w^3} - \frac{4}{w(w-6)} =$$

**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.

$$\frac{\frac{x-8}{y+9}}{\frac{y-9}{x+8}}$$

$$\frac{\frac{x-8}{y+9}}{\frac{y-9}{x+8}} =$$

### 16. Chapter 0, Section 0.3, Question 005

Find all numbers $x$ satisfying the given equation.

$$|2x - 4| = 11$$

Enter the exact answers in increasing order.

$x =$

or $x =$

### 17. Chapter 0, Section 0.3, Question 008

Find all numbers $x$ satisfying the given equation.

$$\left|\frac{9x + 8}{x - 10}\right| = 11$$

Enter the exact answers in increasing order.

$x =$

or $x =$

### 18. Chapter 0, Section 0.3, Question 021

Write the given union as a single interval.

$$[-6, 8] \cup (-5, 2)$$

**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 $0.04$ 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.

$$\left\{x: |x+7| < \frac{1}{500}\right\}$$

**21. Chapter 0, Section 0.3, Question 042**

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

$$\left\{x: |6x-5| < \frac{1}{7}\right\}$$

**22. Chapter 0, Section 0.3, Question 046**

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

$$\{x: |x + 8| \geq 7\}$$

**23. Chapter 0, Section 0.3, Question 048**

Write the given intersection as a single interval.

$$[-17, -7) \cap [-13, -3)$$

**24. Chapter 0, Section 0.3, Question 050**

Write the given intersection as a single interval.

$$(-12, -5) \cap [-10, -8]$$

**25. Chapter 0, Section 0.3, Question 058**

Find all numbers $x$ satisfying the given inequality.

$$\frac{x-4}{11x+1} < 2$$

Enter the exact answer in interval notation.