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**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.

$$\begin{array}{r} \frac{16}{15} \\ \hline \frac{17}{8} \end{array}$$

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

**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.

$$\begin{array}{r} x-8 \\ \hline y+9 \\ \hline y-9 \\ \hline x+8 \end{array}$$

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

**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**

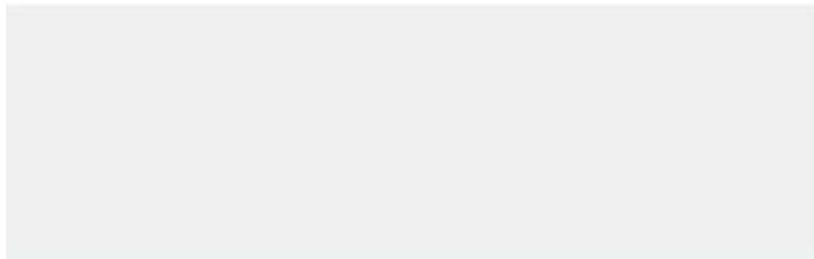
Write the given set as an interval or as a union of two intervals.

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

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

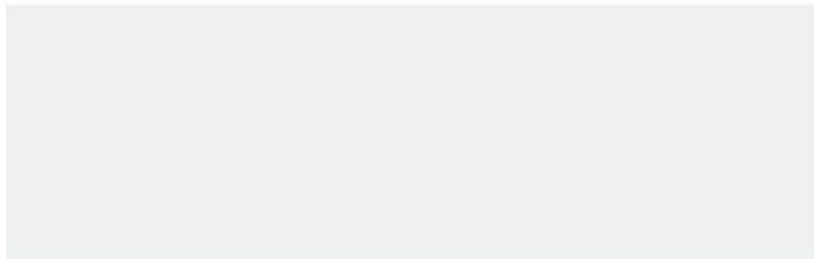
Write the given intersection as a single interval.

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

**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.