

- Regular: p. 90-91 #1-5, 9-29 odd
- Modified: p. 90-91 #1-3, 9, 11, 13, 19, 21
- Advanced: p. 90-91 #1-5, 9-29 odd, 30

**VOCABULARY** Determine whether the algebraic expression is a linear expression. Explain.

1.  $x^2 + x + 1$

2.  $-2x - 8$

3.  $x - x^4$ 

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4. **WRITING** Describe two methods for adding or subtracting linear expressions.

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5. **DIFFERENT WORDS, SAME QUESTION** Which is different? Find “both” answers.

Subtract  $x$  from  $3x - 1$ .

Find  $3x - 1$  decreased by  $x$ .

What is  $x$  more than  $3x - 1$ ?

What is the difference of  $3x - 1$  and  $x$ ?

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Find the sum.

9.  $(7 - b) + (3b + 2)$

11.  $(2x - 6) + 4(x - 3)$

13.  $(1 - 5q) + 2(2.5q + 8)$

15.  $\frac{1}{3}(9 - 6m) + \frac{1}{4}(12m - 8)$

17. **BANKING** You start a new job. After  $w$  weeks, you have  $(10w + 120)$  dollars in your savings account and  $(45w + 25)$  dollars in your checking account. Write an expression that represents the total in both accounts.

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Find the difference.

19.  $(-2g + 7) - (g + 11)$

21.  $(4 - 5y) - 2(3.5y - 8)$

23.  $\frac{1}{8}(-8c + 16) - \frac{1}{3}(6 + 3c)$

25. **ERROR ANALYSIS** Describe and correct the error in finding the difference.



$$\begin{aligned}(4m + 9) - 3(2m - 5) &= 4m + 9 - 6m - 15 \\ &= 4m - 6m + 9 - 15 \\ &= -2m - 6\end{aligned}$$

27. **LOGIC** Your friend says the sum of two linear expressions is always a linear expression. Is your friend correct? Explain.

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29. **TAXI** Taxi Express charges \$2.60 plus \$3.65 per mile, and Cab Cruiser charges \$2.75 plus \$3.90 per mile. Write an expression that represents how much more Cab Cruiser charges than Taxi Express.

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Advanced:

30. **MODELING** A rectangular room is 10 feet longer than it is wide. One-foot-by-one-foot tiles cover the entire floor. Write an expression that represents the number of tiles along the outside of the room.