

For Exercises 18–29, use your algorithms to find each difference without using a calculator. Show your work.

18. $+12 - +4$

19. $+12 - +12$

20. $-12 - +12$

21. $-7 - +8$

22. $+45 - -40$

23. $+45 - -50$

24. $-25 - -75$

25. $-62 - -12$

26. $+0.8 - -0.5$

27. $+\frac{1}{2} - +\frac{3}{4}$

28. $-\frac{2}{5} - +\frac{1}{5}$

29. $-\frac{7}{10} - +\frac{4}{5}$

66. Find each absolute value.

a. $|+8 - +4|$

c. $|+8 - -4|$

e. $|-3\frac{1}{2} + +\frac{3}{4}|$

b. $|-8 - +4|$

d. $|-8 - -4|$

f. $|+5.4 - -1.6|$

g. Compare the results of parts (a)–(f) with the distances found in Exercise 65. What do you notice? Why do you think this is so?

67. Replace n with a number to make each statement true.

a. $n + -18 = 6$

b. $-24 - n = 12$

c. $43 + n = -12$

d. $-20 - n = -50$