

Lesson 3.3.1

3-81. See below:

a. $-20xy - 32y^2$

b. $-36x + 90xy$

c. $x^4 + 3x^3 + 3x^2 - 6x - 10$

3-82. Yes, for even numbers. On a number line, if you start at any multiple of two and add a multiple of two (an even number), you will always be stepping up the number line in multiples of two; you will always land on an even number. No for odd numbers. For example, $3 + 5 = 8$; the sum of two odd numbers is not always odd.

3-83. $(x - 5)(x + 3) = x^2 - 2x - 15$

3-84. See below:

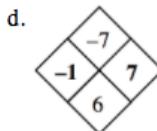
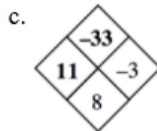
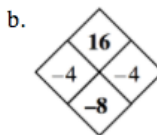
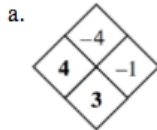
a. $x = 8$ or $x = -2$

b. $x = \pm 7$

c. $x = 1$ or $x = -3$

d. no solution

3-85. Find solutions in the diamonds below:



3-86. See below:

a. 12

b. 59

c. 7

d. 9

e. -13

f. -5