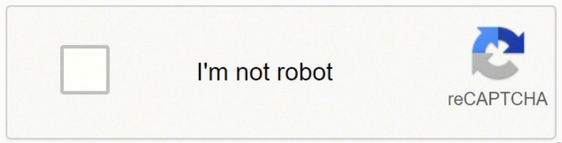

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Algebra nation section 2 answers

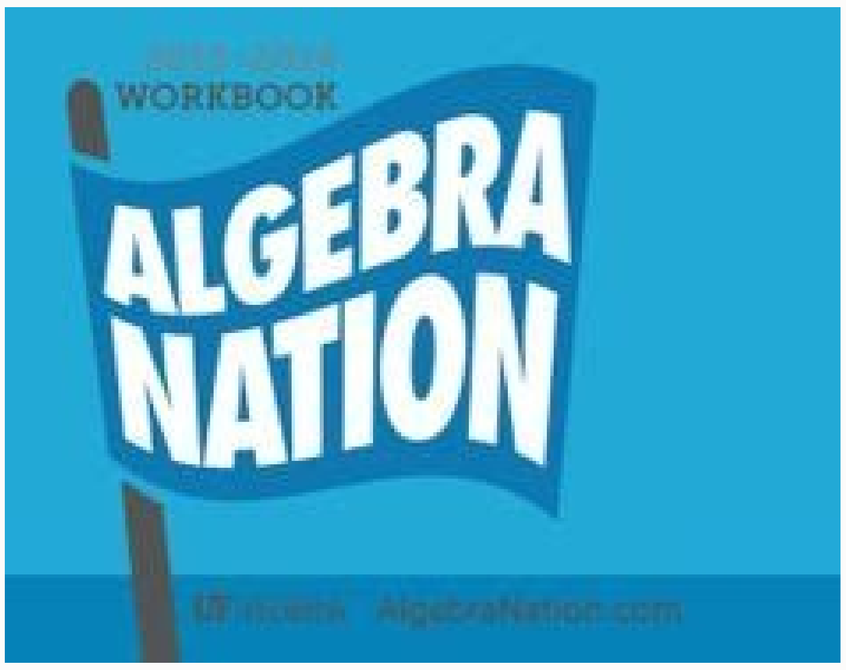
$$x_1 - x_2 - 2x_3 - x_4 = -3$$

(b)
$$\begin{aligned} 3x_1 - 7x_2 + 4x_3 &= 10 \\ x_1 - 2x_2 + x_3 &= 3 \\ 2x_1 - x_2 - 2x_3 &= 6 \end{aligned}$$

(c)
$$\begin{aligned} x_1 + 2x_2 - x_3 + x_4 &= 5 \\ x_1 + 4x_2 - 3x_3 - 3x_4 &= 6 \\ 2x_1 + 3x_2 - x_3 + 4x_4 &= 8 \end{aligned}$$

(d)
$$\begin{aligned} x_1 + 2x_2 + 2x_3 &= 2 \\ x_1 + 8x_3 + 5x_4 &= -6 \\ x_1 + x_2 + 5x_3 + 5x_4 &= 3 \end{aligned}$$

(e)
$$\begin{aligned} x_1 + 2x_2 - 4x_3 - x_4 + x_5 &= 7 \\ -x_1 + 10x_3 - 3x_4 - 4x_5 &= -16 \\ 2x_1 + 5x_2 - 5x_3 - 4x_4 - x_5 &= 2 \end{aligned}$$



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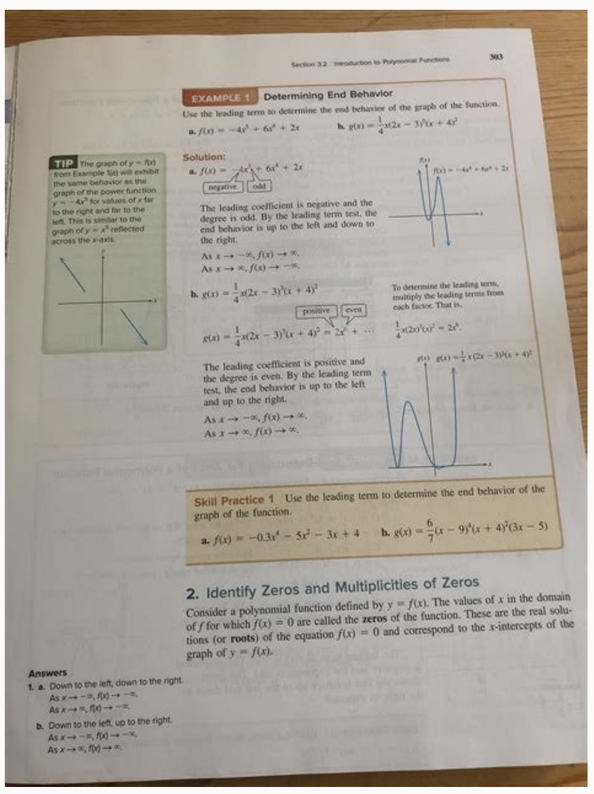


Section 3.2 Introduction to Polynomial Functions 303

EXAMPLE 1 Determining End Behavior

Use the leading term to determine the end behavior of the graph of the function.

a. $f(x) = -4x^5 + 6x^4 + 2x$ b. $g(x) = \frac{1}{4}x(2x - 3)^3(x + 4)^2$

TIP The graph of $y = f(x)$ from Example 1(a) will exhibit the same behavior as the graph of the power function $y = -4x^5$ for values of x far to the right and far to the left. This is similar to the graph of $y = x^3$ reflected across the x-axis.

Solution:

a. $f(x) = -4x^5 + 6x^4 + 2x$ (negative, odd)

The leading coefficient is negative and the degree is odd. By the leading term test, the end behavior is up to the left and down to the right.

As $x \to -\infty$, $f(x) \to \infty$.
As $x \to \infty$, $f(x) \to -\infty$.

b. $g(x) = \frac{1}{4}x(2x - 3)^3(x + 4)^2$ (positive, even)

$g(x) = \frac{1}{4}x(2x - 3)^3(x + 4)^2 = 2x^6 + \cdots$

To determine the leading term, multiply the leading terms from each factor. That is,

$\frac{1}{4}x(2x)^3(x)^2 = 2x^6$.

The leading coefficient is positive and the degree is even. By the leading term test, the end behavior is up to the left and up to the right.

As $x \to -\infty$, $f(x) \to \infty$.
As $x \to \infty$, $f(x) \to \infty$.

Skill Practice 1 Use the leading term to determine the end behavior of the graph of the function.

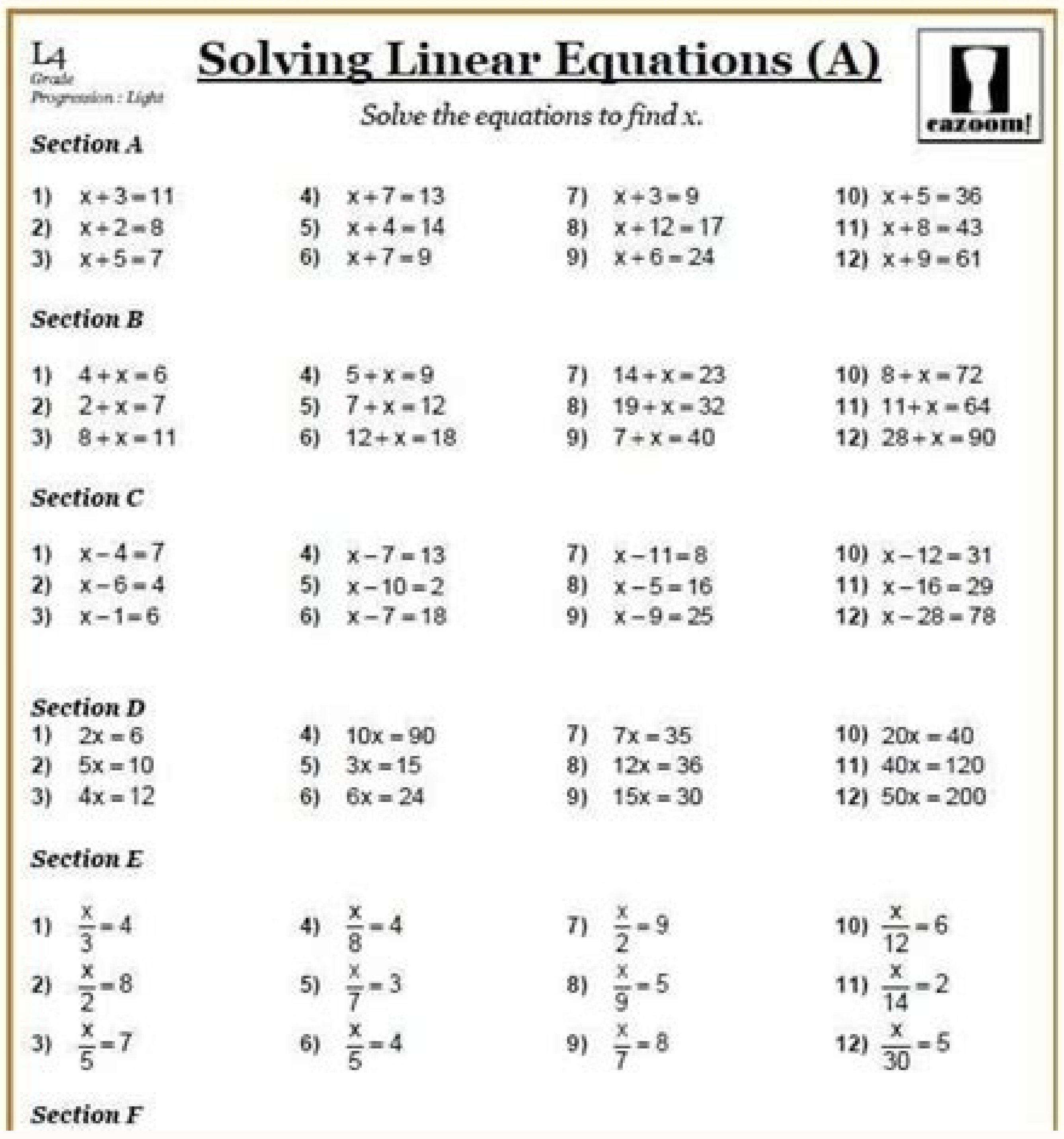
a. $f(x) = -0.3x^4 - 5x^2 - 3x + 4$ b. $g(x) = \frac{6}{7}(x - 9)^5(x + 4)^2(3x - 5)$

2. Identify Zeros and Multiplicities of Zeros

Consider a polynomial function defined by $y = f(x)$. The values of x in the domain of f for which $f(x) = 0$ are called the **zeros** of the function. These are the real solutions (or **roots**) of the equation $f(x) = 0$ and correspond to the x-intercepts of the graph of $y = f(x)$.

Answers

1. a. Down to the left, down to the right.
As $x \to -\infty$, $f(x) \to -\infty$.
As $x \to \infty$, $f(x) \to -\infty$.
b. Down to the left, up to the right.
As $x \to -\infty$, $f(x) \to -\infty$.
As $x \to \infty$, $f(x) \to \infty$.



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Solving Linear Equations (A)

Solve the equations to find x.

eazoom!

Section A

1) $x+3=11$ 4) $x+7=13$ 7) $x+3=9$ 10) $x+5=36$
2) $x+2=8$ 5) $x+4=14$ 8) $x+12=17$ 11) $x+8=43$
3) $x+5=7$ 6) $x+7=9$ 9) $x+6=24$ 12) $x+9=61$

Section B

1) $4+x=6$ 4) $5+x=9$ 7) $14+x=23$ 10) $8+x=72$
2) $2+x=7$ 5) $7+x=12$ 8) $19+x=32$ 11) $11+x=64$
3) $8+x=11$ 6) $12+x=18$ 9) $7+x=40$ 12) $28+x=90$

Section C

1) $x-4=7$ 4) $x-7=13$ 7) $x-11=8$ 10) $x-12=31$
2) $x-6=4$ 5) $x-10=2$ 8) $x-5=16$ 11) $x-16=29$
3) $x-1=6$ 6) $x-7=18$ 9) $x-9=25$ 12) $x-28=78$

Section D

1) $2x=6$ 4) $10x=90$ 7) $7x=35$ 10) $20x=40$
2) $5x=10$ 5) $3x=15$ 8) $12x=36$ 11) $40x=120$
3) $4x=12$ 6) $6x=24$ 9) $15x=30$ 12) $50x=200$

Section E

1) $\frac{x}{3}=4$ 4) $\frac{x}{8}=4$ 7) $\frac{x}{2}=9$ 10) $\frac{x}{12}=6$
2) $\frac{x}{2}=8$ 5) $\frac{x}{7}=3$ 8) $\frac{x}{9}=5$ 11) $\frac{x}{14}=2$
3) $\frac{x}{5}=7$ 6) $\frac{x}{5}=4$ 9) $\frac{x}{7}=8$ 12) $\frac{x}{30}=5$

Section F

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... where certain buildings will be built and located on the map. Section 2: Angles 62.Practice! given: shows: complete the next paragraph test. Converting the theorem of alternative outer ventles: If two lines are cut down by a transversal and alternative outer ventles are congruent, the lines are parallel. Section 2: Angles 56 Ã © Balo! Consider the following figure. below.

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