

Algebra 1 Math Workbook

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Problems

Solving Basic Algebraic Equations- Worksheet 1

1) $9x - 9 = 36$

2) $x + 7 = 12$

3) $2x + 1 = 13$

4) $2x - 7 = -1$

5) $7x + 9 = 51$

6) $2x + 6 = 10$

7) $5x - 7 = 33$

8) $6x + 6 = 36$

9) $2x + 4 = 10$

10) $x - 3 = 5$

11) $2x - 3 = 5$

12) $2x + 5 = 15$

13) $4x - 8 = 28$

14) $7x - 3 = 60$

15) $2x - 4 = 4$

16) $6x + 9 = 15$

17) $9x - 3 = 51$

18) $7x - 9 = 40$

19) $2x + 4 = 12$

20) $x + 5 = 6$

21) $2x - 1 = 15$

22) $8x - 1 = 7$

23) $2x - 9 = -3$

24) $3x + 8 = 14$

25) $5x + 4 = 24$

26) Laura had an unknown number of books. They got 4 times as many books before getting 4 more. In total, they now have 8 books. How many objects did Laura start with?

27) Laura had an unknown number of pencils. They got 3 times as many pencils before losing 5 more. In total, they now have -2 pencils. How many objects did Laura start with?

28) Alex had an unknown number of marbles. They got 2 times as many marbles before getting 3 more. In total, they now have 7 marbles. How many objects did Alex start with?

29) Laura had an unknown number of bottles. They got 9 times as many bottles before getting 4 more. In total, they now have 67 bottles. How many objects did Laura start with?

30) Sally had an unknown number of pens. They got 2 times as many pens before getting 7 more. In total, they now have 17 pens. How many objects did Sally start with?

Solving Basic Algebraic Equations- Worksheet 2

1) $9x - 9 = 36$

2) $x + 7 = 12$

3) $2x + 1 = 13$

4) $2x - 7 = -1$

5) $7x + 9 = 51$

6) $2x + 6 = 10$

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8) $6x + 6 = 36$

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11) $2x - 3 = 5$

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Solving Inequalities- Worksheet 1

1) Solve: $-8x - 7 < -31$

2) Solve: $-7x + 4 < -31$

3) Solve: $3x - 7 < 14$

4) Solve: $-1x + 6 \leq 3$

5) Solve: $-2x + 7 > -1$

6) Solve: $5x + 5 \leq 35$

7) Solve: $9x + 6 > 15$

8) Solve: $-1x - 8 < -16$

9) Solve: $8x - 6 > 18$

10) Solve: $-3x - 3 \leq -27$

11) Solve: $4x - 2 > 22$

12) Solve: $-8x + 4 \geq -20$

13) Solve: $-9x + 5 > -49$

14) Solve: $6x - 3 \geq 27$

15) Solve: $-4x - 1 \geq -37$

16) Solve: $-2x + 3 < -1$

17) Solve: $-5x - 8 \leq -28$

18) Solve: $3x + 6 \geq 18$

19) Solve: $-5x + 8 \geq -12$

20) Solve: $-2x + 9 \geq 7$

21) Solve: $-1x + 9 < 5$

22) Solve: $-2x - 4 > -14$

23) Solve: $-4x - 1 \leq -21$

24) Solve: $9x - 9 \geq 63$

25) Solve: $-9x + 9 \leq 0$

26) Solve: $8x - 1 \leq 71$

27) Solve: $5x + 7 \leq 42$

28) Solve: $5x + 4 < 19$

29) Solve: $-1x - 4 > -8$

30) Solve: $3x - 6 \geq 18$

Solving Inequalities- Worksheet 2

1) Solve: $-8x - 7 < -31$

2) Solve: $-7x + 4 < -31$

3) Solve: $3x - 7 < 14$

4) Solve: $-1x + 6 \leq 3$

5) Solve: $-2x + 7 > -1$

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23) Solve: $-4x - 1 \leq -21$

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25) Solve: $-9x + 9 \leq 0$

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27) Solve: $5x + 7 \leq 42$

28) Solve: $5x + 4 < 19$

29) Solve: $-1x - 4 > -8$

30) Solve: $3x - 6 \geq 18$

Factoring Basic Quadratic Equations- Worksheet 1

1) Factorize: $x^2 - 11x + 28$

2) Factorize: $x^2 + 4x - 12$

3) Factorize: $x^2 - 13x + 30$

4) Factorize: $x^2 - 8x - 9$

5) Factorize: $x^2 - 13x + 40$

6) Factorize: $x^2 - 4x - 60$

7) Factorize: $x^2 + 3x - 70$

8) Factorize: $x^2 - 49$

9) Factorize: $x^2 + 3x - 70$

10) Factorize: $x^2 + 4x - 21$

11) Factorize: $x^2 + 13x + 36$

12) Factorize: $x^2 - 3x - 40$

13) Factorize: $x^2 + 5x - 50$

14) Factorize: $x^2 - 19x + 90$

15) Factorize: $x^2 - 10x + 24$

16) Factorize: $x^2 + 9x + 20$

17) Factorize: $x^2 - 1x - 12$

18) Factorize: $x^2 + 2x - 8$

19) Factorize: $x^2 - 6x + 5$

20) Factorize: $x^2 - 4x - 32$

21) Factorize: $x^2 + 2x - 8$

22) Factorize: $x^2 - 4x + 4$

23) Factorize: $x^2 - 8x + 15$

24) Factorize: $x^2 - 8x + 16$

25) Factorize: $x^2 - 16$

26) Factorize: $x^2 + 1x - 56$

27) Factorize: $x^2 + 1x - 42$

28) Factorize: $x^2 - 5x - 6$

29) Factorize: $x^2 + 5x - 24$

30) Factorize: $x^2 - 25$

Factoring Basic Quadratic Equations- Worksheet 2

1) Factorize: $x^2 - 11x + 28$

2) Factorize: $x^2 + 4x - 12$

3) Factorize: $x^2 - 13x + 30$

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6) Factorize: $x^2 - 4x - 60$

7) Factorize: $x^2 + 3x - 70$

8) Factorize: $x^2 - 49$

9) Factorize: $x^2 + 3x - 70$

10) Factorize: $x^2 + 4x - 21$

11) Factorize: $x^2 + 13x + 36$

12) Factorize: $x^2 - 3x - 40$

13) Factorize: $x^2 + 5x - 50$

14) Factorize: $x^2 - 19x + 90$

15) Factorize: $x^2 - 10x + 24$

16) Factorize: $x^2 + 9x + 20$

17) Factorize: $x^2 - 1x - 12$

18) Factorize: $x^2 + 2x - 8$

19) Factorize: $x^2 - 6x + 5$

20) Factorize: $x^2 - 4x - 32$

21) Factorize: $x^2 + 2x - 8$

22) Factorize: $x^2 - 4x + 4$

23) Factorize: $x^2 - 8x + 15$

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9) Factorize: $x^2 + 3x - 70$

10) Factorize: $x^2 + 4x - 21$

11) Factorize: $x^2 + 13x + 36$

12) Factorize: $x^2 - 3x - 40$

13) Factorize: $x^2 + 5x - 50$

14) Factorize: $x^2 - 19x + 90$

15) Factorize: $x^2 - 10x + 24$

16) Factorize: $x^2 + 9x + 20$

17) Factorize: $x^2 - 1x - 12$

18) Factorize: $x^2 + 2x - 8$

19) Factorize: $x^2 - 6x + 5$

20) Factorize: $x^2 - 4x - 32$

21) Factorize: $x^2 + 2x - 8$

22) Factorize: $x^2 - 4x + 4$

23) Factorize: $x^2 - 8x + 15$

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7) Factorize: $x^2 + 3x - 70$

8) Factorize: $x^2 - 49$

9) Factorize: $x^2 + 3x - 70$

10) Factorize: $x^2 + 4x - 21$

11) Factorize: $x^2 + 13x + 36$

12) Factorize: $x^2 - 3x - 40$

13) Factorize: $x^2 + 5x - 50$

14) Factorize: $x^2 - 19x + 90$

15) Factorize: $x^2 - 10x + 24$

16) Factorize: $x^2 + 9x + 20$

17) Factorize: $x^2 - 1x - 12$

18) Factorize: $x^2 + 2x - 8$

19) Factorize: $x^2 - 6x + 5$

20) Factorize: $x^2 - 4x - 32$

21) Factorize: $x^2 + 2x - 8$

22) Factorize: $x^2 - 4x + 4$

23) Factorize: $x^2 - 8x + 15$

24) Factorize: $x^2 - 8x + 16$

25) Factorize: $x^2 - 16$

26) Factorize: $x^2 + 1x - 56$

27) Factorize: $x^2 + 1x - 42$

28) Factorize: $x^2 - 5x - 6$

29) Factorize: $x^2 + 5x - 24$

30) Factorize: $x^2 - 25$

Factoring Advanced Quadratic Equations- Worksheet 1

1) Factorize: $24x^2 - 56x + 16$

2) Factorize: $-4x^2 + 10x + 6$

3) Factorize: $-5x^2 - 45x - 40$

4) Factorize: $-10x^2 + 20x + 80$

5) Factorize: $-30x^2 - 70x - 40$

6) Factorize: $15x^2 - 12x - 3$

7) Factorize: $-6x^2 - 10x + 56$

8) Factorize: $6x^2 - 1x - 1$

9) Factorize: $-6x^2 + 20x - 16$

10) Factorize: $-30x^2 - 51x - 9$

11) Factorize: $6x^2 + 13x - 5$

12) Factorize: $-3x^2 - 16x + 64$

13) Factorize: $-18x^2 + 9x + 14$

14) Factorize: $6x^2 - 19x + 14$

15) Factorize: $15x^2 - 49x + 40$

16) Factorize: $-3x^2 + 15x - 18$

17) Factorize: $15x^2 + 6x - 21$

18) Factorize: $15x^2 - 11x + 2$

19) Factorize: $10x^2 + 51x + 27$

20) Factorize: $-24x^2 + 74x - 45$

21) Factorize: $12x^2 + 48x + 21$

22) Factorize: $-10x^2 + 28x - 18$

23) Factorize: $3x^2 + 16x + 16$

24) Factorize: $-2x^2 - 26x - 72$

25) Factorize: $12x^2 + 34x - 6$

26) Factorize: $-3x^2 + 2x + 21$

27) Factorize: $3x^2 - 18x + 15$

28) Factorize: $12x^2 - 80x + 100$

29) Factorize: $12x^2 + 2x - 24$

30) Factorize: $-4x^2 + 17x + 42$

Factoring Advanced Quadratic Equations- Worksheet 2

1) Factorize: $24x^2 - 56x + 16$

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15) Factorize: $15x^2 - 49x + 40$

16) Factorize: $-3x^2 + 15x - 18$

17) Factorize: $15x^2 + 6x - 21$

18) Factorize: $15x^2 - 11x + 2$

19) Factorize: $10x^2 + 51x + 27$

20) Factorize: $-24x^2 + 74x - 45$

21) Factorize: $12x^2 + 48x + 21$

22) Factorize: $-10x^2 + 28x - 18$

23) Factorize: $3x^2 + 16x + 16$

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16) Factorize: $-3x^2 + 15x - 18$

17) Factorize: $15x^2 + 6x - 21$

18) Factorize: $15x^2 - 11x + 2$

19) Factorize: $10x^2 + 51x + 27$

20) Factorize: $-24x^2 + 74x - 45$

21) Factorize: $12x^2 + 48x + 21$

22) Factorize: $-10x^2 + 28x - 18$

23) Factorize: $3x^2 + 16x + 16$

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3) Factorize: $-5x^2 - 45x - 40$

4) Factorize: $-10x^2 + 20x + 80$

5) Factorize: $-30x^2 - 70x - 40$

6) Factorize: $15x^2 - 12x - 3$

7) Factorize: $-6x^2 - 10x + 56$

8) Factorize: $6x^2 - 1x - 1$

9) Factorize: $-6x^2 + 20x - 16$

10) Factorize: $-30x^2 - 51x - 9$

11) Factorize: $6x^2 + 13x - 5$

12) Factorize: $-3x^2 - 16x + 64$

13) Factorize: $-18x^2 + 9x + 14$

14) Factorize: $6x^2 - 19x + 14$

15) Factorize: $15x^2 - 49x + 40$

16) Factorize: $-3x^2 + 15x - 18$

17) Factorize: $15x^2 + 6x - 21$

18) Factorize: $15x^2 - 11x + 2$

19) Factorize: $10x^2 + 51x + 27$

20) Factorize: $-24x^2 + 74x - 45$

21) Factorize: $12x^2 + 48x + 21$

22) Factorize: $-10x^2 + 28x - 18$

23) Factorize: $3x^2 + 16x + 16$

24) Factorize: $-2x^2 - 26x - 72$

25) Factorize: $12x^2 + 34x - 6$

26) Factorize: $-3x^2 + 2x + 21$

27) Factorize: $3x^2 - 18x + 15$

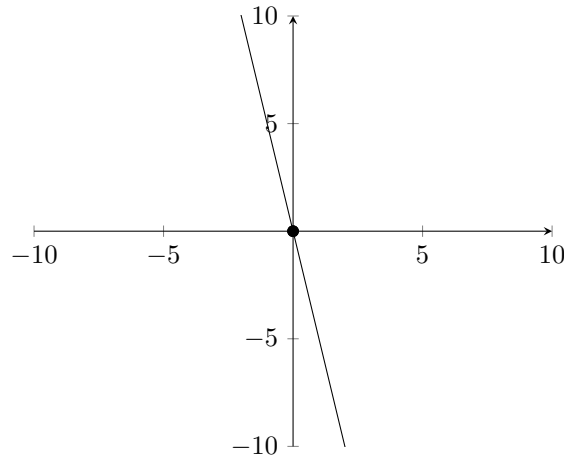
28) Factorize: $12x^2 - 80x + 100$

29) Factorize: $12x^2 + 2x - 24$

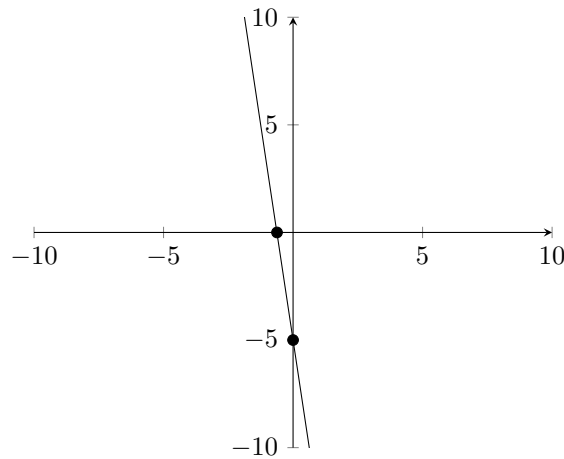
30) Factorize: $-4x^2 + 17x + 42$

Finding the Equation of a Line- Worksheet 1

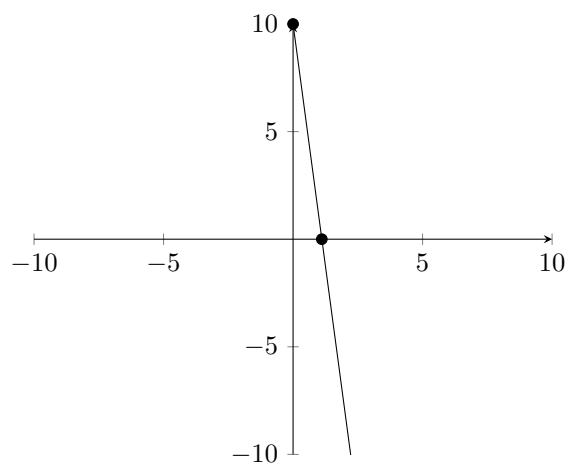
- 1) Find the equation of the line with the points $(0, 0)$, $(0.0, 0)$. Round your slope to the nearest whole number:



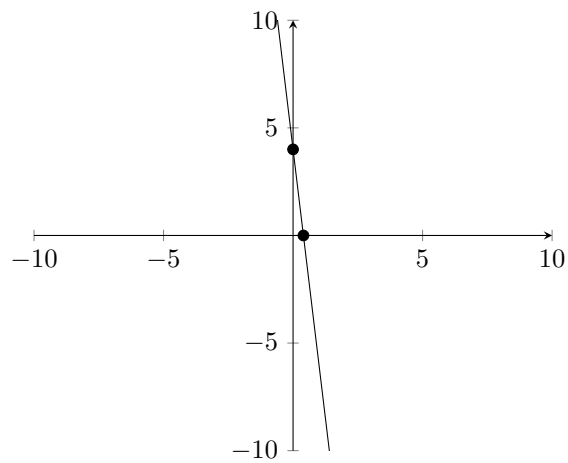
- 2) Find the equation of the line with the points $(0, -5)$, $(-0.62, 0)$. Round your slope to the nearest whole number:



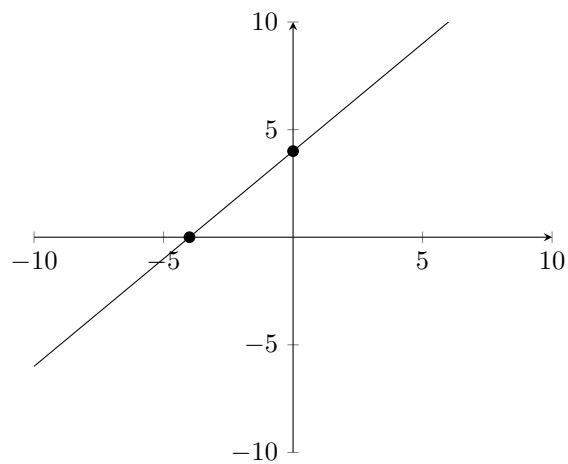
- 3) Find the equation of the line with the points $(0, 10)$, $(1.11, 0)$. Round your slope to the nearest whole number:



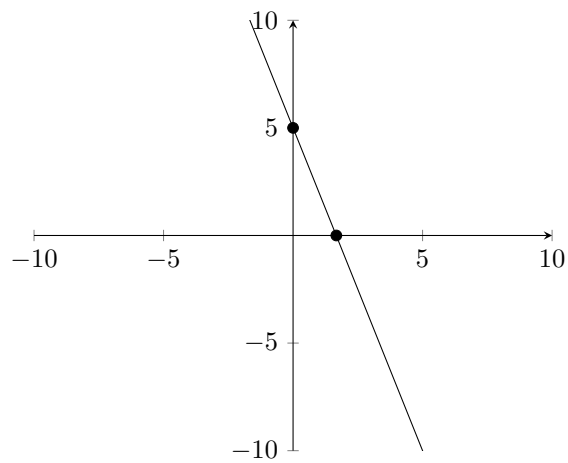
4) Find the equation of the line with the points $(0, 4)$, $(0.4, 0)$. Round your slope to the nearest whole number:



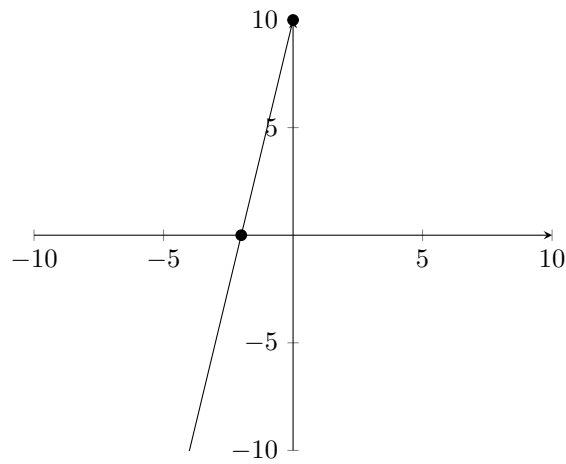
5) Find the equation of the line with the points $(0, 4)$, $(-4.0, 0)$. Round your slope to the nearest whole number:



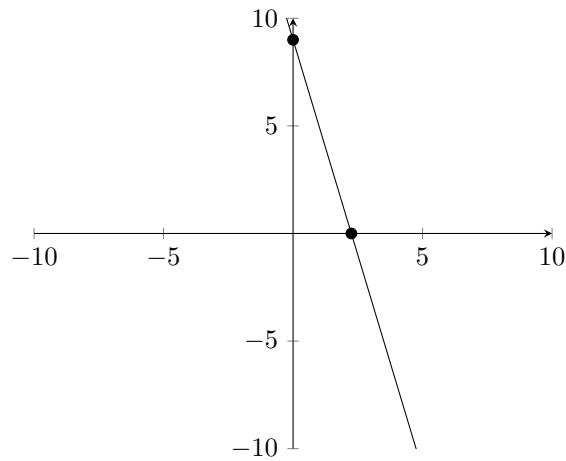
6) Find the equation of the line with the points $(0, 5)$, $(1.67, 0)$. Round your slope to the nearest whole number:



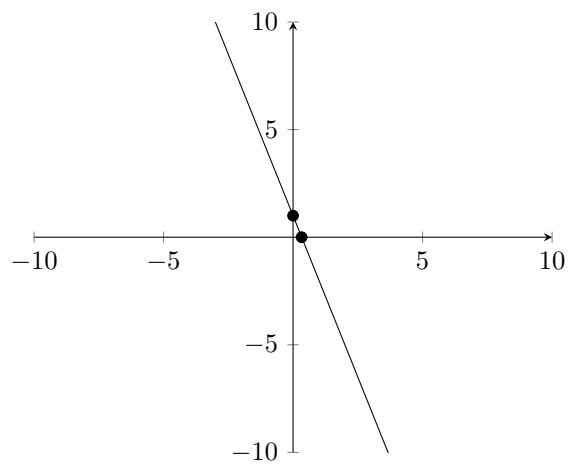
7) Find the equation of the line with the points $(0, 10)$, $(-2.0, 0)$. Round your slope to the nearest whole number:



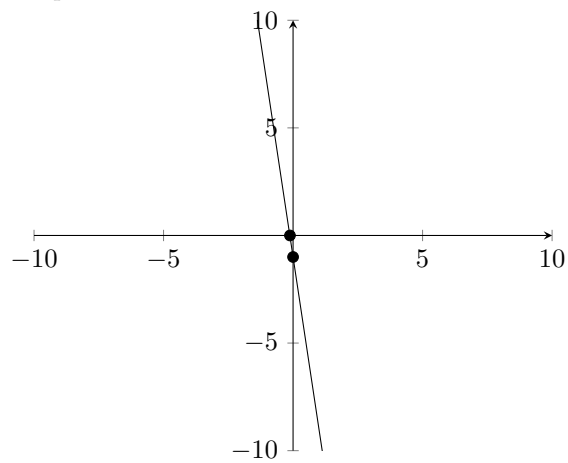
8) Find the equation of the line with the points $(0, 9)$, $(2.25, 0)$. Round your slope to the nearest whole number:



9) Find the equation of the line with the points $(0, 1)$, $(0.33, 0)$. Round your slope to the nearest whole number:

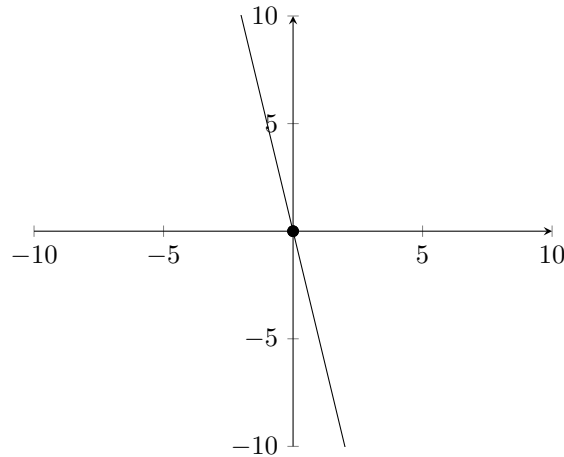


10) Find the equation of the line with the points $(0, -1)$, $(-0.12, 0)$. Round your slope to the nearest whole number:

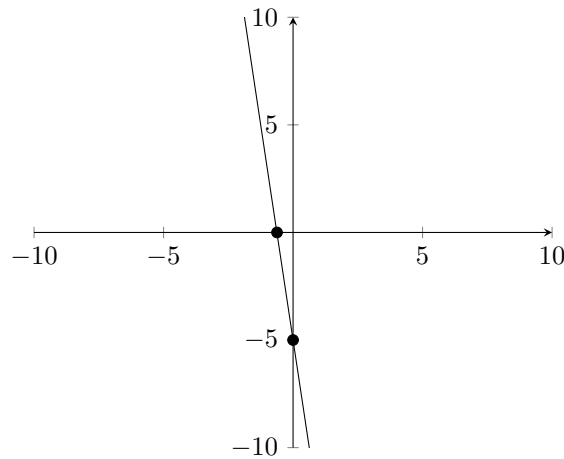


Finding the Equation of a Line- Worksheet 2

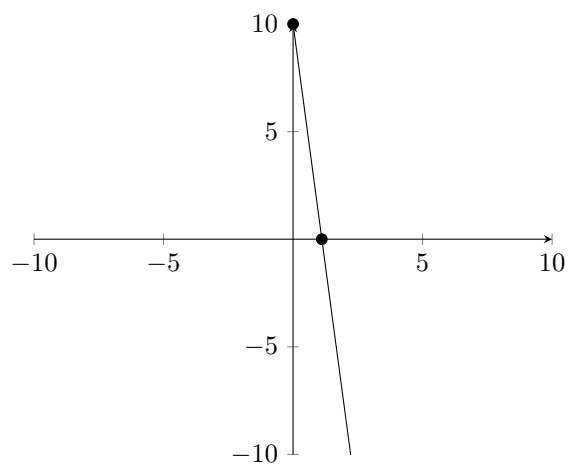
- 1) Find the equation of the line with the points $(0, 0)$, $(0.0, 0)$. Round your slope to the nearest whole number:



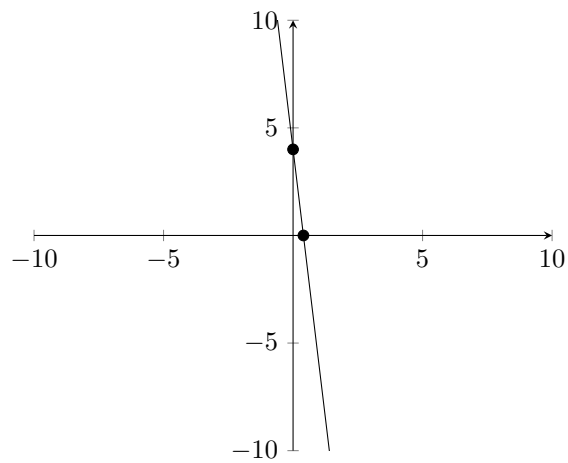
- 2) Find the equation of the line with the points $(0, -5)$, $(-0.62, 0)$. Round your slope to the nearest whole number:



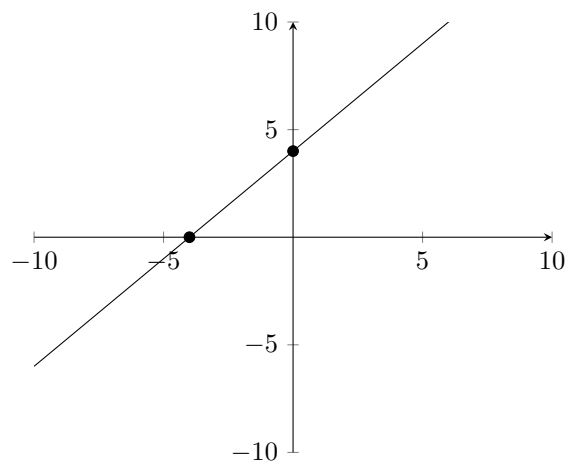
- 3) Find the equation of the line with the points $(0, 10)$, $(1.11, 0)$. Round your slope to the nearest whole number:



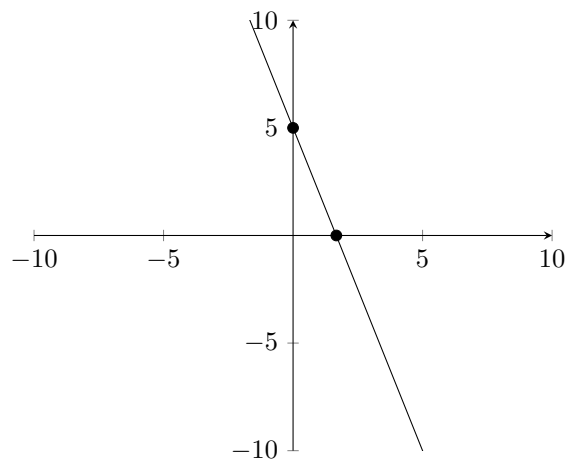
4) Find the equation of the line with the points $(0, 4)$, $(0.4, 0)$. Round your slope to the nearest whole number:



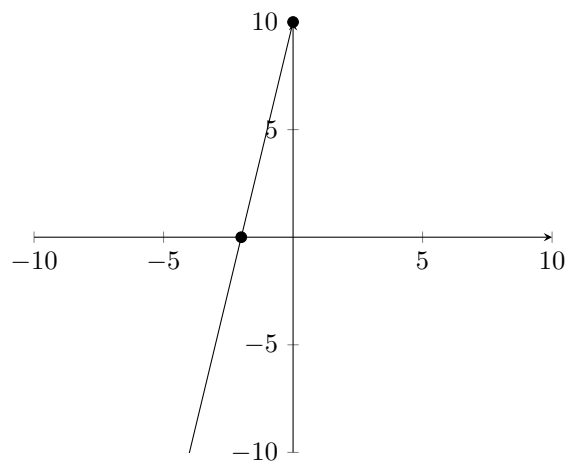
5) Find the equation of the line with the points $(0, 4)$, $(-4.0, 0)$. Round your slope to the nearest whole number:



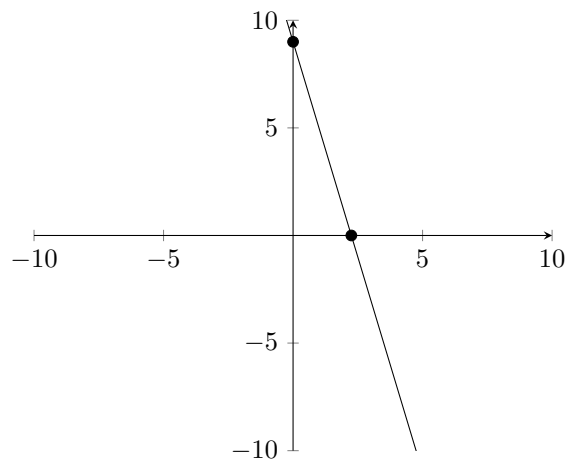
6) Find the equation of the line with the points $(0, 5)$, $(1.67, 0)$. Round your slope to the nearest whole number:



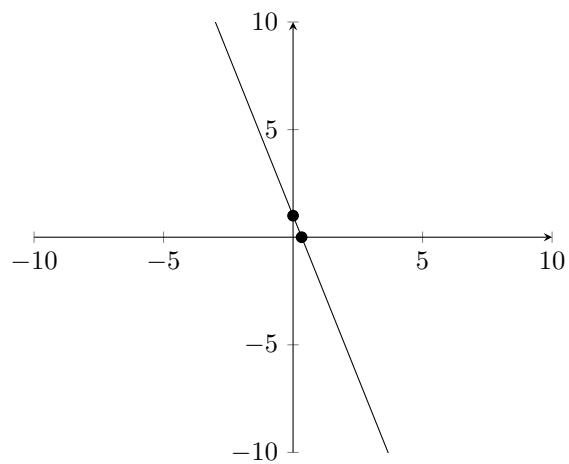
7) Find the equation of the line with the points $(0, 10)$, $(-2.0, 0)$. Round your slope to the nearest whole number:



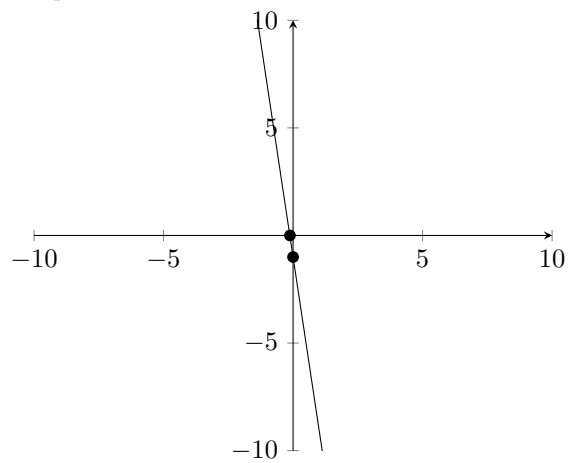
8) Find the equation of the line with the points $(0, 9)$, $(2.25, 0)$. Round your slope to the nearest whole number:



9) Find the equation of the line with the points $(0, 1)$, $(0.33, 0)$. Round your slope to the nearest whole number:

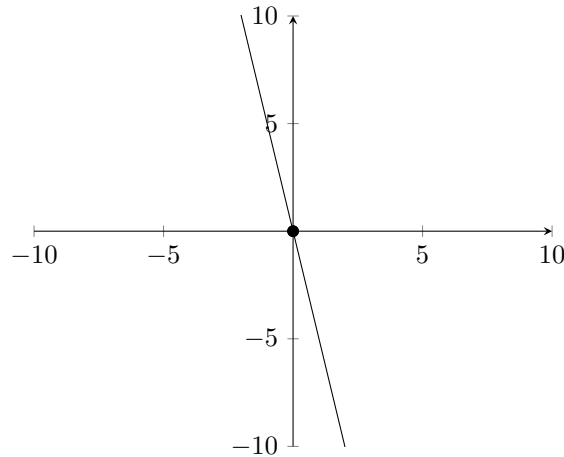


10) Find the equation of the line with the points $(0, -1)$, $(-0.12, 0)$. Round your slope to the nearest whole number:

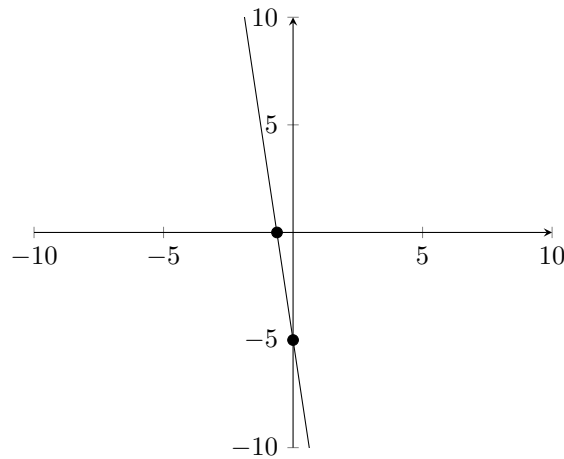


Finding the Equation of a Line- Worksheet 3

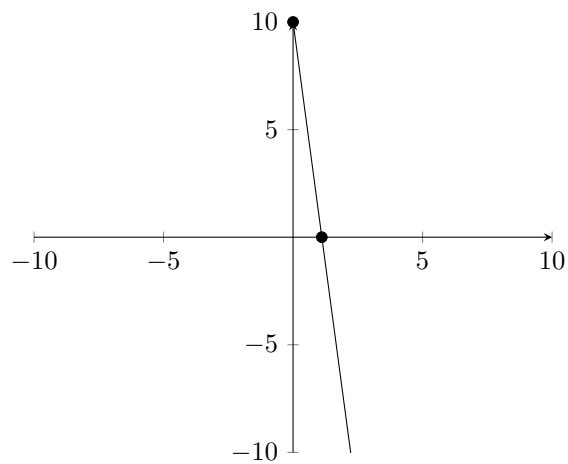
- 1) Find the equation of the line with the points $(0, 0)$, $(0.0, 0)$. Round your slope to the nearest whole number:



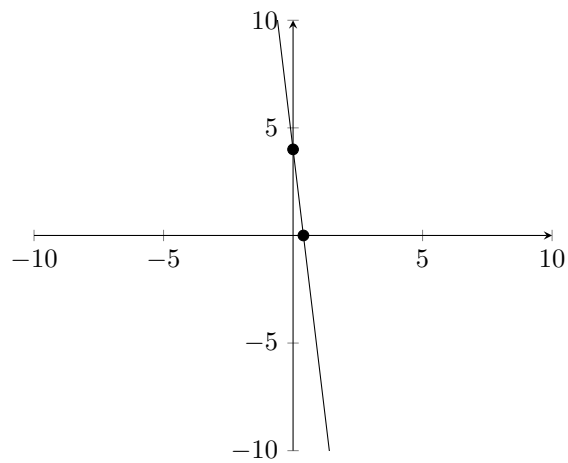
- 2) Find the equation of the line with the points $(0, -5)$, $(-0.62, 0)$. Round your slope to the nearest whole number:



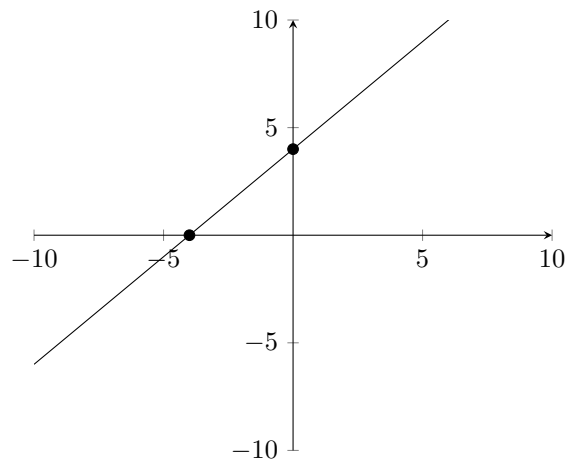
- 3) Find the equation of the line with the points $(0, 10)$, $(1.11, 0)$. Round your slope to the nearest whole number:



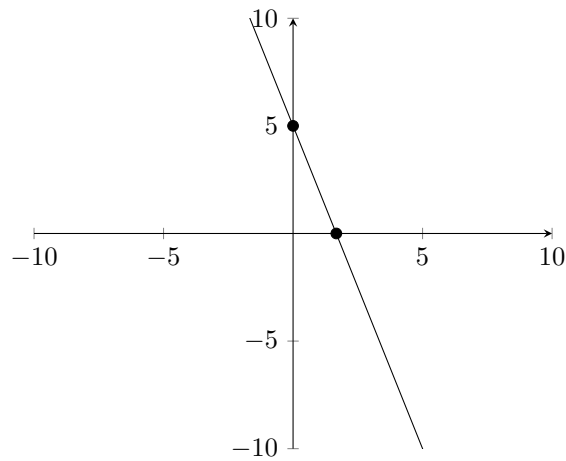
4) Find the equation of the line with the points $(0, 4)$, $(0.4, 0)$. Round your slope to the nearest whole number:



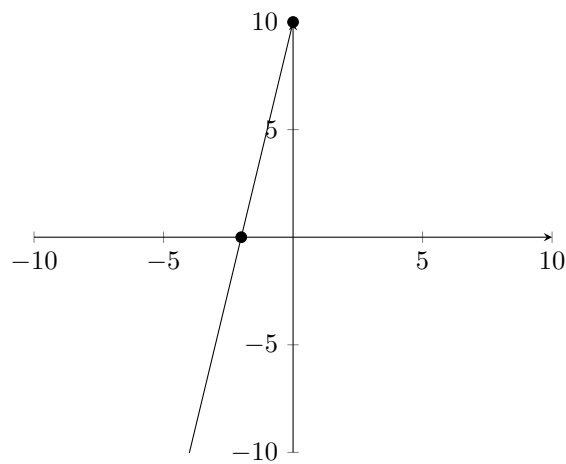
5) Find the equation of the line with the points $(0, 4)$, $(-4.0, 0)$. Round your slope to the nearest whole number:



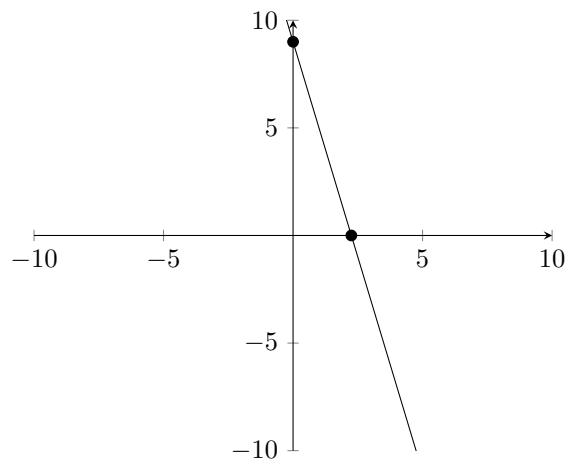
6) Find the equation of the line with the points $(0, 5)$, $(1.67, 0)$. Round your slope to the nearest whole number:



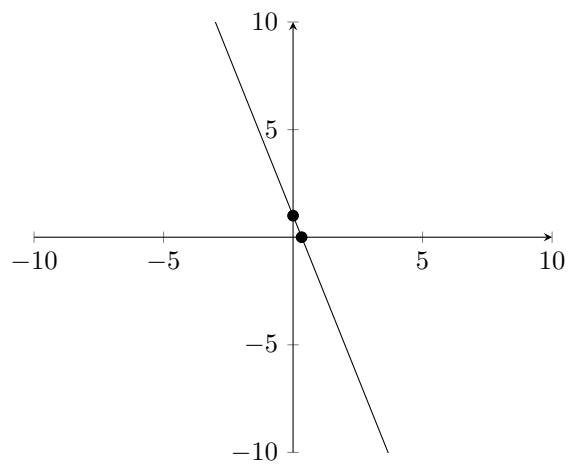
7) Find the equation of the line with the points $(0, 10)$, $(-2.0, 0)$. Round your slope to the nearest whole number:



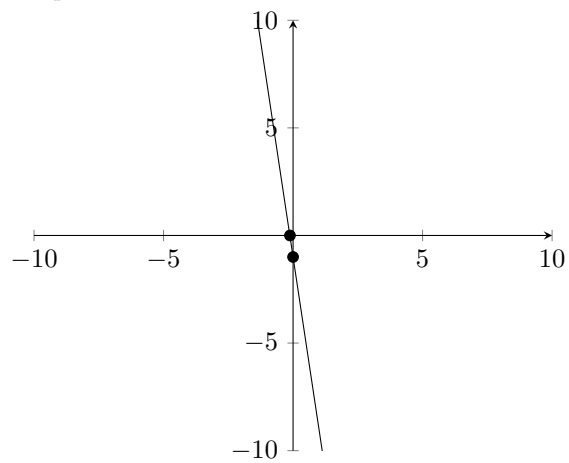
8) Find the equation of the line with the points $(0, 9)$, $(2.25, 0)$. Round your slope to the nearest whole number:



9) Find the equation of the line with the points $(0, 1)$, $(0.33, 0)$. Round your slope to the nearest whole number:

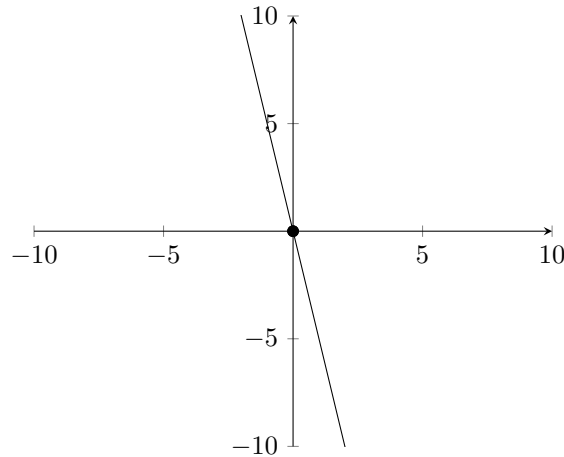


10) Find the equation of the line with the points $(0, -1)$, $(-0.12, 0)$. Round your slope to the nearest whole number:

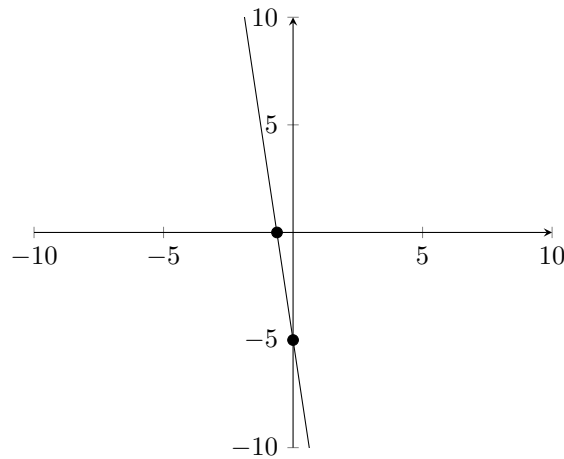


Finding the Equation of a Line- Worksheet 4

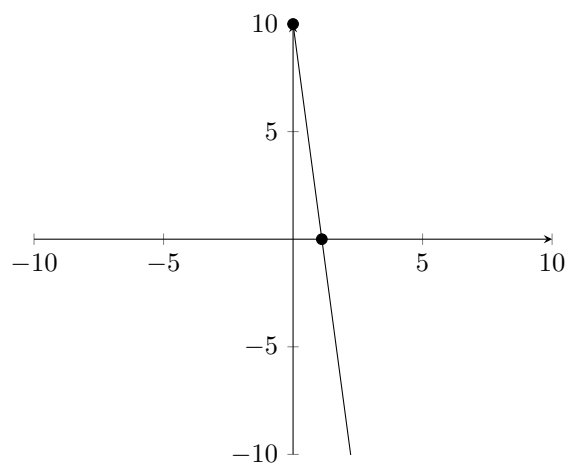
- 1) Find the equation of the line with the points $(0, 0)$, $(0.0, 0)$. Round your slope to the nearest whole number:



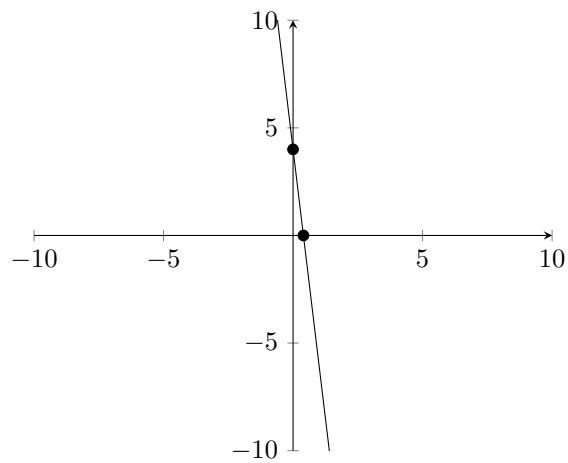
- 2) Find the equation of the line with the points $(0, -5)$, $(-0.62, 0)$. Round your slope to the nearest whole number:



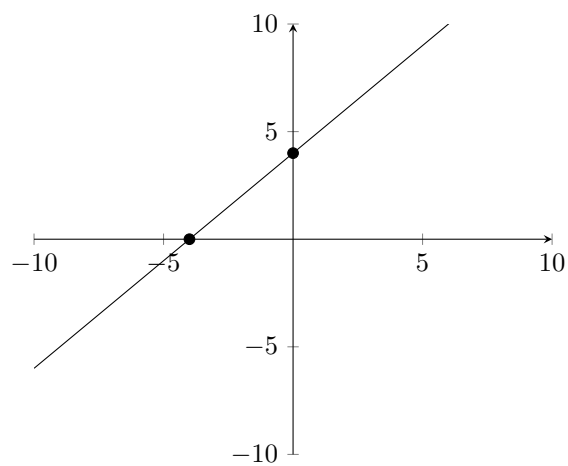
- 3) Find the equation of the line with the points $(0, 10)$, $(1.11, 0)$. Round your slope to the nearest whole number:



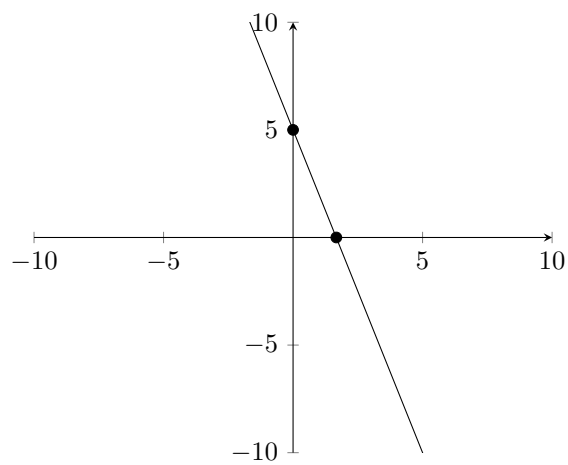
4) Find the equation of the line with the points $(0, 4)$, $(0.4, 0)$. Round your slope to the nearest whole number:



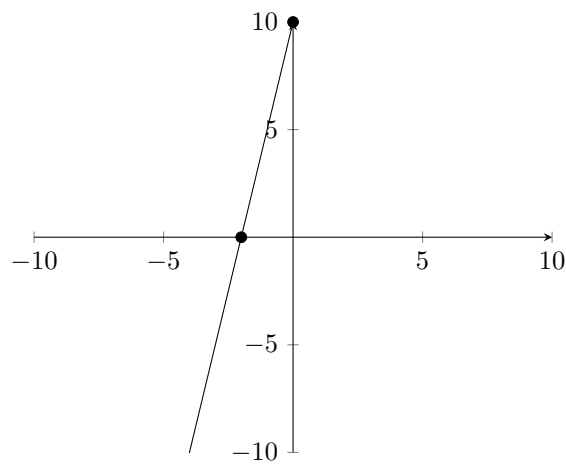
5) Find the equation of the line with the points $(0, 4)$, $(-4.0, 0)$. Round your slope to the nearest whole number:



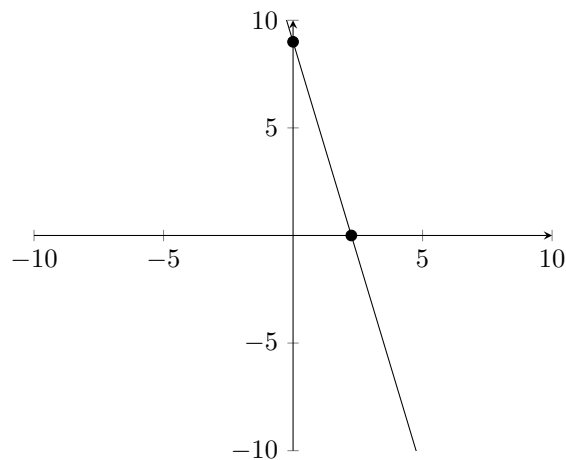
6) Find the equation of the line with the points $(0, 5)$, $(1.67, 0)$. Round your slope to the nearest whole number:



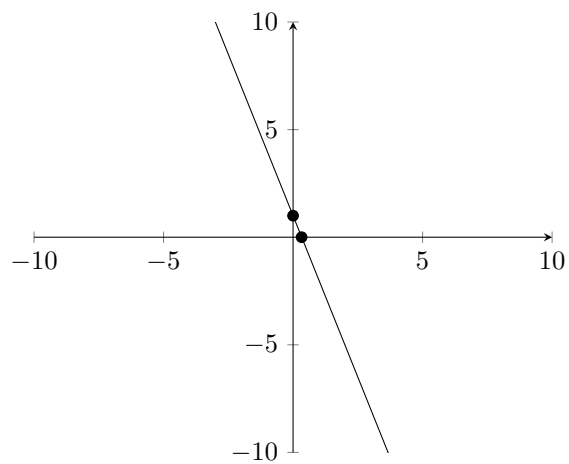
7) Find the equation of the line with the points $(0, 10)$, $(-2.0, 0)$. Round your slope to the nearest whole number:



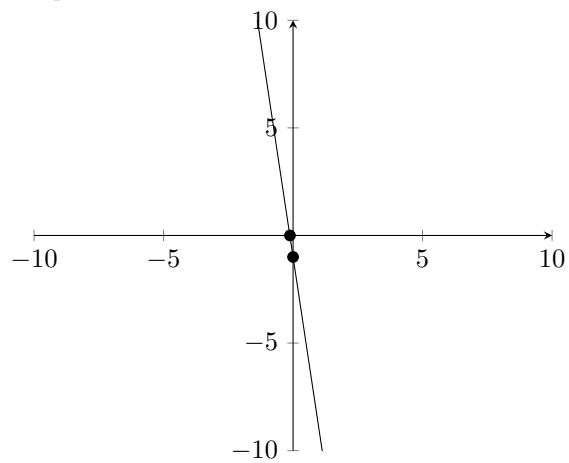
8) Find the equation of the line with the points $(0, 9)$, $(2.25, 0)$. Round your slope to the nearest whole number:



9) Find the equation of the line with the points $(0, 1)$, $(0.33, 0)$. Round your slope to the nearest whole number:



10) Find the equation of the line with the points $(0, -1)$, $(-0.12, 0)$. Round your slope to the nearest whole number:



Solutions

Solving Basic Algebraic Equations- Solution 1

- 1) $x=5$
- 2) $x=5$
- 3) $x=6$
- 4) $x=3$
- 5) $x=6$
- 6) $x=2$
- 7) $x=8$
- 8) $x=5$
- 9) $x=3$
- 10) $x=8$
- 11) $x=4$
- 12) $x=5$
- 13) $x=9$
- 14) $x=9$
- 15) $x=4$
- 16) $x=1$
- 17) $x=6$
- 18) $x=7$
- 19) $x=4$
- 20) $x=1$
- 21) $x=8$
- 22) $x=1$
- 23) $x=3$
- 24) $x=2$
- 25) $x=4$
- 26) Laura started with 1 books.
- 27) Laura started with 1 pencils.
- 28) Alex started with 2 marbles.
- 29) Laura started with 7 bottles.
- 30) Sally started with 5 pens.

Solving Basic Algebraic Equations- Solution 2

- 1) $x=5$
- 2) $x=5$
- 3) $x=6$
- 4) $x=3$
- 5) $x=6$
- 6) $x=2$
- 7) $x=8$
- 8) $x=5$
- 9) $x=3$
- 10) $x=8$
- 11) $x=4$
- 12) $x=5$
- 13) $x=9$
- 14) $x=9$
- 15) $x=4$
- 16) $x=1$
- 17) $x=6$
- 18) $x=7$
- 19) $x=4$
- 20) $x=1$
- 21) $x=8$
- 22) $x=1$
- 23) $x=3$
- 24) $x=2$
- 25) $x=4$
- 26) Laura started with 1 books.
- 27) Laura started with 1 pencils.
- 28) Alex started with 2 marbles.
- 29) Laura started with 7 bottles.
- 30) Sally started with 5 pens.

Solving Basic Algebraic Equations- Solution 3

- 1) $x=5$
- 2) $x=5$
- 3) $x=6$
- 4) $x=3$
- 5) $x=6$
- 6) $x=2$
- 7) $x=8$
- 8) $x=5$
- 9) $x=3$
- 10) $x=8$
- 11) $x=4$
- 12) $x=5$
- 13) $x=9$
- 14) $x=9$
- 15) $x=4$
- 16) $x=1$
- 17) $x=6$
- 18) $x=7$
- 19) $x=4$
- 20) $x=1$
- 21) $x=8$
- 22) $x=1$
- 23) $x=3$
- 24) $x=2$
- 25) $x=4$
- 26) Laura started with 1 books.
- 27) Laura started with 1 pencils.
- 28) Alex started with 2 marbles.
- 29) Laura started with 7 bottles.
- 30) Sally started with 5 pens.

Solving Basic Algebraic Equations- Solution 4

- 1) $x=5$
- 2) $x=5$
- 3) $x=6$
- 4) $x=3$
- 5) $x=6$
- 6) $x=2$
- 7) $x=8$
- 8) $x=5$
- 9) $x=3$
- 10) $x=8$
- 11) $x=4$
- 12) $x=5$
- 13) $x=9$
- 14) $x=9$
- 15) $x=4$
- 16) $x=1$
- 17) $x=6$
- 18) $x=7$
- 19) $x=4$
- 20) $x=1$
- 21) $x=8$
- 22) $x=1$
- 23) $x=3$
- 24) $x=2$
- 25) $x=4$
- 26) Laura started with 1 books.
- 27) Laura started with 1 pencils.
- 28) Alex started with 2 marbles.
- 29) Laura started with 7 bottles.
- 30) Sally started with 5 pens.

Solving Inequalities- Solution 1

- 1) $x > 3$
- 2) $x > 5$
- 3) $x < 7$
- 4) $x \geq 3$
- 5) $x < 4$
- 6) $x \leq 6$
- 7) $x > 1$
- 8) $x > 8$
- 9) $x > 3$
- 10) $x \geq 8$
- 11) $x > 6$
- 12) $x \leq 3$
- 13) $x < 6$
- 14) $x \geq 5$
- 15) $x \leq 9$
- 16) $x > 2$
- 17) $x \geq 4$
- 18) $x \geq 4$
- 19) $x \leq 4$
- 20) $x \leq 1$
- 21) $x > 4$
- 22) $x < 5$
- 23) $x \geq 5$
- 24) $x \geq 8$
- 25) $x \geq 1$
- 26) $x \leq 9$
- 27) $x \leq 7$
- 28) $x < 3$
- 29) $x < 4$
- 30) $x \geq 8$

Solving Inequalities- Solution 2

- 1) $x > 3$
- 2) $x > 5$
- 3) $x < 7$
- 4) $x \geq 3$
- 5) $x < 4$
- 6) $x \leq 6$
- 7) $x > 1$
- 8) $x > 8$
- 9) $x > 3$
- 10) $x \geq 8$
- 11) $x > 6$
- 12) $x \leq 3$
- 13) $x < 6$
- 14) $x \geq 5$
- 15) $x \leq 9$
- 16) $x > 2$
- 17) $x \geq 4$
- 18) $x \geq 4$
- 19) $x \leq 4$
- 20) $x \leq 1$
- 21) $x > 4$
- 22) $x < 5$
- 23) $x \geq 5$
- 24) $x \geq 8$
- 25) $x \geq 1$
- 26) $x \leq 9$
- 27) $x \leq 7$
- 28) $x < 3$
- 29) $x < 4$
- 30) $x \geq 8$

Solving Inequalities- Solution 3

- 1) $x > 3$
- 2) $x > 5$
- 3) $x < 7$
- 4) $x \geq 3$
- 5) $x < 4$
- 6) $x \leq 6$
- 7) $x > 1$
- 8) $x > 8$
- 9) $x > 3$
- 10) $x \geq 8$
- 11) $x > 6$
- 12) $x \leq 3$
- 13) $x < 6$
- 14) $x \geq 5$
- 15) $x \leq 9$
- 16) $x > 2$
- 17) $x \geq 4$
- 18) $x \geq 4$
- 19) $x \leq 4$
- 20) $x \leq 1$
- 21) $x > 4$
- 22) $x < 5$
- 23) $x \geq 5$
- 24) $x \geq 8$
- 25) $x \geq 1$
- 26) $x \leq 9$
- 27) $x \leq 7$
- 28) $x < 3$
- 29) $x < 4$
- 30) $x \geq 8$

Solving Inequalities- Solution 4

- 1) $x > 3$
- 2) $x > 5$
- 3) $x < 7$
- 4) $x \geq 3$
- 5) $x < 4$
- 6) $x \leq 6$
- 7) $x > 1$
- 8) $x > 8$
- 9) $x > 3$
- 10) $x \geq 8$
- 11) $x > 6$
- 12) $x \leq 3$
- 13) $x < 6$
- 14) $x \geq 5$
- 15) $x \leq 9$
- 16) $x > 2$
- 17) $x \geq 4$
- 18) $x \geq 4$
- 19) $x \leq 4$
- 20) $x \leq 1$
- 21) $x > 4$
- 22) $x < 5$
- 23) $x \geq 5$
- 24) $x \geq 8$
- 25) $x \geq 1$
- 26) $x \leq 9$
- 27) $x \leq 7$
- 28) $x < 3$
- 29) $x < 4$
- 30) $x \geq 8$

Factoring Basic Quadratic Equations- Solution 1

- 1) $(x - 4)(x - 7)$
- 2) $(x - 2)(x + 6)$
- 3) $(x - 10)(x - 3)$
- 4) $(x + 1)(x - 9)$
- 5) $(x - 8)(x - 5)$
- 6) $(x - 10)(x + 6)$
- 7) $(x + 10)(x - 7)$
- 8) $(x - 7)(x + 7)$
- 9) $(x + 10)(x - 7)$
- 10) $(x - 3)(x + 7)$
- 11) $(x + 9)(x + 4)$
- 12) $(x - 8)(x + 5)$
- 13) $(x - 5)(x + 10)$
- 14) $(x - 10)(x - 9)$
- 15) $(x - 6)(x - 4)$
- 16) $(x + 5)(x + 4)$
- 17) $(x + 3)(x - 4)$
- 18) $(x + 4)(x - 2)$
- 19) $(x - 1)(x - 5)$
- 20) $(x + 4)(x - 8)$
- 21) $(x - 2)(x + 4)$
- 22) $(x - 2)(x - 2)$
- 23) $(x - 3)(x - 5)$
- 24) $(x - 4)(x - 4)$
- 25) $(x + 4)(x - 4)$
- 26) $(x - 7)(x + 8)$
- 27) $(x + 7)(x - 6)$
- 28) $(x + 1)(x - 6)$
- 29) $(x + 8)(x - 3)$
- 30) $(x + 5)(x - 5)$

Factoring Basic Quadratic Equations- Solution 2

- 1) $(x - 4)(x - 7)$
- 2) $(x - 2)(x + 6)$
- 3) $(x - 10)(x - 3)$
- 4) $(x + 1)(x - 9)$
- 5) $(x - 8)(x - 5)$
- 6) $(x - 10)(x + 6)$
- 7) $(x + 10)(x - 7)$
- 8) $(x - 7)(x + 7)$
- 9) $(x + 10)(x - 7)$
- 10) $(x - 3)(x + 7)$
- 11) $(x + 9)(x + 4)$
- 12) $(x - 8)(x + 5)$
- 13) $(x - 5)(x + 10)$
- 14) $(x - 10)(x - 9)$
- 15) $(x - 6)(x - 4)$
- 16) $(x + 5)(x + 4)$
- 17) $(x + 3)(x - 4)$
- 18) $(x + 4)(x - 2)$
- 19) $(x - 1)(x - 5)$
- 20) $(x + 4)(x - 8)$
- 21) $(x - 2)(x + 4)$
- 22) $(x - 2)(x - 2)$
- 23) $(x - 3)(x - 5)$
- 24) $(x - 4)(x - 4)$
- 25) $(x + 4)(x - 4)$
- 26) $(x - 7)(x + 8)$
- 27) $(x + 7)(x - 6)$
- 28) $(x + 1)(x - 6)$
- 29) $(x + 8)(x - 3)$
- 30) $(x + 5)(x - 5)$

Factoring Basic Quadratic Equations- Solution 3

- 1) $(x - 4)(x - 7)$
- 2) $(x - 2)(x + 6)$
- 3) $(x - 10)(x - 3)$
- 4) $(x + 1)(x - 9)$
- 5) $(x - 8)(x - 5)$
- 6) $(x - 10)(x + 6)$
- 7) $(x + 10)(x - 7)$
- 8) $(x - 7)(x + 7)$
- 9) $(x + 10)(x - 7)$
- 10) $(x - 3)(x + 7)$
- 11) $(x + 9)(x + 4)$
- 12) $(x - 8)(x + 5)$
- 13) $(x - 5)(x + 10)$
- 14) $(x - 10)(x - 9)$
- 15) $(x - 6)(x - 4)$
- 16) $(x + 5)(x + 4)$
- 17) $(x + 3)(x - 4)$
- 18) $(x + 4)(x - 2)$
- 19) $(x - 1)(x - 5)$
- 20) $(x + 4)(x - 8)$
- 21) $(x - 2)(x + 4)$
- 22) $(x - 2)(x - 2)$
- 23) $(x - 3)(x - 5)$
- 24) $(x - 4)(x - 4)$
- 25) $(x + 4)(x - 4)$
- 26) $(x - 7)(x + 8)$
- 27) $(x + 7)(x - 6)$
- 28) $(x + 1)(x - 6)$
- 29) $(x + 8)(x - 3)$
- 30) $(x + 5)(x - 5)$

Factoring Basic Quadratic Equations- Solution 4

- 1) $(x - 4)(x - 7)$
- 2) $(x - 2)(x + 6)$
- 3) $(x - 10)(x - 3)$
- 4) $(x + 1)(x - 9)$
- 5) $(x - 8)(x - 5)$
- 6) $(x - 10)(x + 6)$
- 7) $(x + 10)(x - 7)$
- 8) $(x - 7)(x + 7)$
- 9) $(x + 10)(x - 7)$
- 10) $(x - 3)(x + 7)$
- 11) $(x + 9)(x + 4)$
- 12) $(x - 8)(x + 5)$
- 13) $(x - 5)(x + 10)$
- 14) $(x - 10)(x - 9)$
- 15) $(x - 6)(x - 4)$
- 16) $(x + 5)(x + 4)$
- 17) $(x + 3)(x - 4)$
- 18) $(x + 4)(x - 2)$
- 19) $(x - 1)(x - 5)$
- 20) $(x + 4)(x - 8)$
- 21) $(x - 2)(x + 4)$
- 22) $(x - 2)(x - 2)$
- 23) $(x - 3)(x - 5)$
- 24) $(x - 4)(x - 4)$
- 25) $(x + 4)(x - 4)$
- 26) $(x - 7)(x + 8)$
- 27) $(x + 7)(x - 6)$
- 28) $(x + 1)(x - 6)$
- 29) $(x + 8)(x - 3)$
- 30) $(x + 5)(x - 5)$

Factoring Advanced Quadratic Equations- Solution 1

- 1) $(6x - 2)(4x - 8)$
- 2) $(-1x + 3)(4x + 2)$
- 3) $(5x + 5)(-1x - 8)$
- 4) $(2x - 8)(-5x - 10)$
- 5) $(6x + 8)(-5x - 5)$
- 6) $(3x - 3)(5x + 1)$
- 7) $(3x - 7)(-2x - 8)$
- 8) $(-3x - 1)(-2x + 1)$
- 9) $(-6x + 8)(1x - 2)$
- 10) $(6x + 9)(-5x - 1)$
- 11) $(-3x + 1)(-2x - 5)$
- 12) $(3x - 8)(-1x - 8)$
- 13) $(-3x - 2)(6x - 7)$
- 14) $(1x - 2)(6x - 7)$
- 15) $(-3x + 5)(-5x + 8)$
- 16) $(-1x + 3)(3x - 6)$
- 17) $(-3x + 3)(-5x - 7)$
- 18) $(3x - 1)(5x - 2)$
- 19) $(5x + 3)(2x + 9)$
- 20) $(6x - 5)(-4x + 9)$
- 21) $(2x + 7)(6x + 3)$
- 22) $(2x - 2)(-5x + 9)$
- 23) $(-1x - 4)(-3x - 4)$
- 24) $(-1x - 9)(2x + 8)$
- 25) $(6x - 1)(2x + 6)$
- 26) $(1x - 3)(-3x - 7)$
- 27) $(-3x + 3)(-1x + 5)$
- 28) $(-6x + 10)(-2x + 10)$
- 29) $(6x - 8)(2x + 3)$
- 30) $(4x + 7)(-1x + 6)$

Factoring Advanced Quadratic Equations- Solution 2

- 1) $(6x - 2)(4x - 8)$
- 2) $(-1x + 3)(4x + 2)$
- 3) $(5x + 5)(-1x - 8)$
- 4) $(2x - 8)(-5x - 10)$
- 5) $(6x + 8)(-5x - 5)$
- 6) $(3x - 3)(5x + 1)$
- 7) $(3x - 7)(-2x - 8)$
- 8) $(-3x - 1)(-2x + 1)$
- 9) $(-6x + 8)(1x - 2)$
- 10) $(6x + 9)(-5x - 1)$
- 11) $(-3x + 1)(-2x - 5)$
- 12) $(3x - 8)(-1x - 8)$
- 13) $(-3x - 2)(6x - 7)$
- 14) $(1x - 2)(6x - 7)$
- 15) $(-3x + 5)(-5x + 8)$
- 16) $(-1x + 3)(3x - 6)$
- 17) $(-3x + 3)(-5x - 7)$
- 18) $(3x - 1)(5x - 2)$
- 19) $(5x + 3)(2x + 9)$
- 20) $(6x - 5)(-4x + 9)$
- 21) $(2x + 7)(6x + 3)$
- 22) $(2x - 2)(-5x + 9)$
- 23) $(-1x - 4)(-3x - 4)$
- 24) $(-1x - 9)(2x + 8)$
- 25) $(6x - 1)(2x + 6)$
- 26) $(1x - 3)(-3x - 7)$
- 27) $(-3x + 3)(-1x + 5)$
- 28) $(-6x + 10)(-2x + 10)$
- 29) $(6x - 8)(2x + 3)$
- 30) $(4x + 7)(-1x + 6)$

Factoring Advanced Quadratic Equations- Solution 3

- 1) $(6x - 2)(4x - 8)$
- 2) $(-1x + 3)(4x + 2)$
- 3) $(5x + 5)(-1x - 8)$
- 4) $(2x - 8)(-5x - 10)$
- 5) $(6x + 8)(-5x - 5)$
- 6) $(3x - 3)(5x + 1)$
- 7) $(3x - 7)(-2x - 8)$
- 8) $(-3x - 1)(-2x + 1)$
- 9) $(-6x + 8)(1x - 2)$
- 10) $(6x + 9)(-5x - 1)$
- 11) $(-3x + 1)(-2x - 5)$
- 12) $(3x - 8)(-1x - 8)$
- 13) $(-3x - 2)(6x - 7)$
- 14) $(1x - 2)(6x - 7)$
- 15) $(-3x + 5)(-5x + 8)$
- 16) $(-1x + 3)(3x - 6)$
- 17) $(-3x + 3)(-5x - 7)$
- 18) $(3x - 1)(5x - 2)$
- 19) $(5x + 3)(2x + 9)$
- 20) $(6x - 5)(-4x + 9)$
- 21) $(2x + 7)(6x + 3)$
- 22) $(2x - 2)(-5x + 9)$
- 23) $(-1x - 4)(-3x - 4)$
- 24) $(-1x - 9)(2x + 8)$
- 25) $(6x - 1)(2x + 6)$
- 26) $(1x - 3)(-3x - 7)$
- 27) $(-3x + 3)(-1x + 5)$
- 28) $(-6x + 10)(-2x + 10)$
- 29) $(6x - 8)(2x + 3)$
- 30) $(4x + 7)(-1x + 6)$

Factoring Advanced Quadratic Equations- Solution 4

- 1) $(6x - 2)(4x - 8)$
- 2) $(-1x + 3)(4x + 2)$
- 3) $(5x + 5)(-1x - 8)$
- 4) $(2x - 8)(-5x - 10)$
- 5) $(6x + 8)(-5x - 5)$
- 6) $(3x - 3)(5x + 1)$
- 7) $(3x - 7)(-2x - 8)$
- 8) $(-3x - 1)(-2x + 1)$
- 9) $(-6x + 8)(1x - 2)$
- 10) $(6x + 9)(-5x - 1)$
- 11) $(-3x + 1)(-2x - 5)$
- 12) $(3x - 8)(-1x - 8)$
- 13) $(-3x - 2)(6x - 7)$
- 14) $(1x - 2)(6x - 7)$
- 15) $(-3x + 5)(-5x + 8)$
- 16) $(-1x + 3)(3x - 6)$
- 17) $(-3x + 3)(-5x - 7)$
- 18) $(3x - 1)(5x - 2)$
- 19) $(5x + 3)(2x + 9)$
- 20) $(6x - 5)(-4x + 9)$
- 21) $(2x + 7)(6x + 3)$
- 22) $(2x - 2)(-5x + 9)$
- 23) $(-1x - 4)(-3x - 4)$
- 24) $(-1x - 9)(2x + 8)$
- 25) $(6x - 1)(2x + 6)$
- 26) $(1x - 3)(-3x - 7)$
- 27) $(-3x + 3)(-1x + 5)$
- 28) $(-6x + 10)(-2x + 10)$
- 29) $(6x - 8)(2x + 3)$
- 30) $(4x + 7)(-1x + 6)$

Finding the Equation of a Line- Solution 1

1) $y = -5x + 0$

2) $y = -8x + -5$

3) $y = -9x + 10$

4) $y = -10x + 4$

5) $y = 1x + 4$

6) $y = -3x + 5$

7) $y = 5x + 10$

8) $y = -4x + 9$

9) $y = -3x + 1$

10) $y = -8x + -1$

Finding the Equation of a Line- Solution 2

1) $y = -5x + 0$

2) $y = -8x + -5$

3) $y = -9x + 10$

4) $y = -10x + 4$

5) $y = 1x + 4$

6) $y = -3x + 5$

7) $y = 5x + 10$

8) $y = -4x + 9$

9) $y = -3x + 1$

10) $y = -8x + -1$

Finding the Equation of a Line- Solution 3

1) $y = -5x + 0$

2) $y = -8x + -5$

3) $y = -9x + 10$

4) $y = -10x + 4$

5) $y = 1x + 4$

6) $y = -3x + 5$

7) $y = 5x + 10$

8) $y = -4x + 9$

9) $y = -3x + 1$

10) $y = -8x + -1$

Finding the Equation of a Line- Solution 4

1) $y = -5x + 0$

2) $y = -8x + -5$

3) $y = -9x + 10$

4) $y = -10x + 4$

5) $y = 1x + 4$

6) $y = -3x + 5$

7) $y = 5x + 10$

8) $y = -4x + 9$

9) $y = -3x + 1$

10) $y = -8x + -1$