

1. Simplify:

a) $-3 - 6$

1a. _____

b) $-3 - (-6)$

1b. _____

2. Simplify:

a) $3(-6)$

2a. _____

b) $-3(-6)$

2b. _____

3. Which of the following cannot be simplified?

a) $x^2(x)$

b) $x^2 + x$

c) $x^2 + x^2$

3. _____

4. Simplify:

a) $2x + x$

4a. _____

b) $2x(x)$

4b. _____

5. Factor out all common factors:

$2ax - 2x^2$

5. _____

6. Factor:

$$x^2 - 5x - 6$$

6. _____

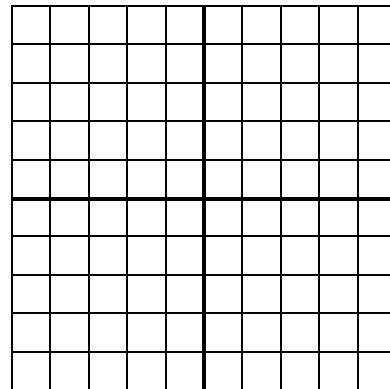
7. Solve for x:

$$4x + 18 = 10$$

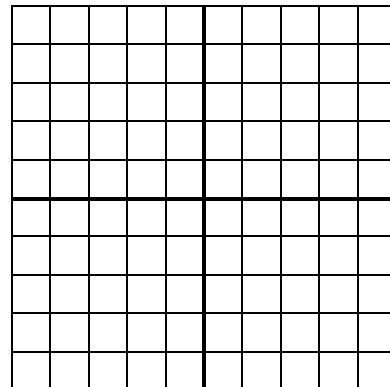
7. _____

8. Plot the points in the number plane:

- a) (0, 3)
- b) (-2, 0)
- c) (3, -2)



9. Draw the graph of $x - y = 3$



10. Three times a number is fifty-two plus the number.
Find the number.

10. _____

1. Simplify: $(x^2 + 3x + 4) - (x^2 - 3x - 2)$

1. _____

2. Solve for x: $\frac{x}{2} - \frac{2}{3} = \frac{1}{12}$

2. _____

3. Solve by factoring: $3x^2 - 2x - 1 = 0$

3. _____

4. The quadratic formula is $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

Use the quadratic formula to solve $x^2 - 2x - 2 = 0$

4. _____

5. The base of a triangle is 2 feet less than its height.
Its area is 12 square feet. Find its base and height.

5. _____

6. Sketch the graph of $y = x^2 - 2x - 3$

7. Divide: $\frac{x}{x^2 - 1} \div \frac{x^2}{x^2 - 2x + 1}$

7. _____

8. Add: $\frac{1}{x} + \frac{1}{y}$

8. _____

9. Simplify: $\left(\frac{a^2b}{ab^3}\right)^2$

9. _____

10. Subtract: $\sqrt{72x^3} - x\sqrt{50x}$

10. _____