

1. Simplify the expressions as shown below.

Example: $4x + 2x = 6x$ $3x - 2x = x$
 $7a - 3a = 4a$ $x - 2x = -x$
 Note: We write $1x$ and $1a$ as x and a .
 Similarly, $-1x$ and $-1a$ as $-x$ and $-a$.

a. $3x + 5x = 8$

n. $6a - 4a =$

b. $5y + y =$ y

o. $7a + a =$

c. $8n - 3n =$

p. $5x - x =$

d. $9a + 2a =$

q. $-3x + 4x =$

e. $3x + 6x - 4x =$

r. $-5a + 4a =$

f. $\frac{3}{5}a - \frac{2}{5}a =$

s. $-x + 2x =$

g. $\frac{2}{3}a - \frac{1}{3}a =$

t. $-x + x = 0$

h. $6x + 4x - x =$

u. $a - \frac{1}{3}a =$

i. $\frac{4}{7}a + \frac{2}{7}a =$

v. $2x - \frac{1}{5}x =$

j. $6x - 0 =$

w. $\frac{2}{3}x - \frac{2}{3}x =$

k. $0 - 2x =$

x. $\frac{3}{4}y + \frac{1}{4}y =$

l. $-3a + 2a =$

y. $x + x + 2x =$

m. $-\frac{3}{8}x + \frac{5}{8}x =$

z. $a - 2a + 4a =$

2. Simplify the expressions below.

Example: $8 - 3x - 4 = -3x + 4$ $-4 - 2x - 2 = -2x - 6$ $5x + 3x + 4 - 2 = 8x + 2$
--

a. $5x + 3 + 4$

k. $7x + 4x + 5 + 2$

b. $5x + 4 - 3$

l. $7x - 4x + 5 - 2$

c. $5x - 4 + 3$

m. $-7x + 4x - 5 - 1$

d. $-5x - 4 - 3$

n. $-7x - 4x - 5 + 1$

e. $6 + 3x + 2$

o. $7x + 5 + 4x + 1$

f. $6 - 3x + 2$

p. $7x + 5 - 4x - 1$

g. $-6 + 3x - 2$

q. $7x - 5 + 4x + 1$

h. $-6 - 3x + 2$

r. $-7x + 5 - 4x - 1$

i. $-6 - 3x - 2$

s. $-7x - 5 - 4x - 1$

j. $-7 + 3x - 6$

t. $5x - 4 - 3x + 2$