Name: Datum:

#### Aufgabe 1:

a) 
$$-2 x = 2$$

d) 
$$7 x = 3$$

g) - 
$$9 x = 4$$

b) 
$$5 x = 3$$

e) 
$$2 x = -2$$

h) - 
$$4 x = 1$$

c) 
$$2 x = 10$$

f) 
$$x = -7$$

i) 
$$3 x = 2$$

## Aufgabe 2:

a) 
$$6 \times -10 = 0$$

d) 
$$-8x + 9 = 0$$

g) 
$$10 \times 3 = 0$$

b) 
$$-2 \times -5 = 0$$

e) 
$$-3x + 9 = 0$$

h) 
$$-8x + 9 = 0$$

c) 
$$5 \times -9 = 0$$

f) 
$$3 \times - 8 = 0$$

i) 
$$-10 \times -9 = 0$$

#### Aufgabe 3:

a) 
$$4 x + 2 = -6$$

d) 
$$7 \times -4 = 8$$

g) 
$$-10 \times -1 = 8$$

b) 
$$8x + 1 = -6$$

e) 
$$6 x + 6 = 9$$

h) 
$$-5 x + 10 = 6$$

c) 
$$x - 7 = 2$$

f) 
$$-6 \times -10 = -3$$

i) 
$$2 x = 3$$

## Aufgabe 4:

a) 
$$-9 \times -6 = -6 \times +3$$

d) 
$$-7 x + 9 = 5 x + 10$$

g) 
$$7x + 4 = x - 9$$

b) 
$$-4 x + 3 = 10 x + 8$$

e) 
$$-4x-1=x-4$$

h) 
$$8x + 8 = 8x + 6$$

c) 
$$-10 \times -6 = x + 5$$

f) 
$$9 \times -9 = 4 \times -2$$

i) 
$$-2x + 10 = -9x - 2$$

## Aufgabe 5:

a) 
$$-1(9 \times -5) = -6$$

d) 
$$6(10 \times -4) = 0$$

g) 
$$5(-3 \times -3) = -2$$

b) 
$$-4(-4 \times -4) = -10$$

e) 
$$4(x - 4) = -6$$

h) 
$$3(-5 x + 4) = 1$$

c) 
$$6(3 \times + 6) = -3$$

f) 
$$4(4 x + 5) = 3$$

i) 
$$- x = 1$$

# Aufgabe 6:

a) 
$$-2(4 x) = -4(10 x - 2)$$

f) 
$$-3(-6 x + 9) = -10(-9 x - 8)$$

b) 
$$5(2 \times -2) = -10(6 \times +6)$$

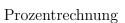
g) 
$$9(5 x + 8) = 8(2 x + 4)$$

c) 
$$2(x + 9) = 10(9 x - 2)$$

h) 
$$4(-4 \times -1) = 3(-5 \times +7)$$

d) 
$$x + 2 = 8(4 x - 6)$$
  
e)  $-9 x + 2 = -7(-7 x - 3)$ 

i) 
$$7(-9 x + 2) = 10(8 x - 3)$$





 $-1\ ,\ \frac{3}{5}\ ,\ 5\ ,\ \frac{3}{7}\ ,\ -1\ ,\ -7\ ,\ -\frac{4}{9}\ ,\ -\frac{1}{4}\ ,\ \frac{2}{3}\ ,\ \frac{5}{3}\ ,\ -\frac{5}{2}\ ,\ \frac{9}{5}\ ,\ \frac{9}{8}\ ,\ 3\ ,\ \frac{8}{3}\ ,\ \frac{3}{10}\ ,\ \frac{9}{8}\ ,\ -\frac{9}{10}\ ,\ -2\ ,\ -\frac{7}{8}\ ,\ 9\ ,\ \frac{12}{7}\ ,\ \frac{1}{2}\ ,\ -\frac{7}{6}\ ,\ -\frac{9}{10}\ ,\ \frac{4}{5}\ ,\ \frac{3}{2}\ ,\ -3\ ,\ -\frac{5}{14}\ ,\ -1\ ,\ -\frac{1}{12}\ ,\ \frac{3}{5}\ ,\ \frac{7}{5}\ ,\ -\frac{13}{6}\ ,\ \{\}\ ,\ -\frac{12}{7}\ ,\ \frac{11}{9}\ ,\ -\frac{13}{8}\ ,\ -\frac{13}{6}\ ,\ \frac{2}{5}\ ,\ \frac{5}{2}\ ,\ -\frac{17}{16}\ ,\ -\frac{13}{15}\ ,\ \frac{11}{15}\ ,\ -1\ ,\ \frac{1}{4}\ ,\ -\frac{5}{7}\ ,\ \frac{19}{44}\ ,\ \frac{50}{31}\ ,\ -\frac{19}{58}\ ,\ -\frac{107}{72}\ ,\ -\frac{40}{29}\ ,\ -25\ ,\ \frac{4}{13}\ ,$