

-3. Work out the value of  $x$

$x+1=-1$

$x+1=-2$

$x+1=-3$

$x+1=-4$

$x+1=-11$

$x+1=-12$

$x+1=-13$

$x+1=-14$

$x+1=-111$

$x+1=-112$

$x+1=-113$

$x+1=-114$

$x+2=-11$

$x+2=-12$

$x+2=-13$

$x+2=-14$

$x+2=-111$

$x+2=-112$

$x+2=-113$

$x+2=-114$

$x-1=-11$

$x-1=-12$

$x-1=-13$

$x-1=-14$

$x-1=-111$

$x-1=-112$

$x-1=-113$

$x-1=-114$

$x-2=-11$

$x-2=-12$

$x-2=-13$

$x-2=-14$

$x-2=-111$

$x-2=-112$

$x-2=-113$

$x-2=-114$

$x = -0$

$2x = -0$

$3x = -0$

$4x = 0$

$x = -1$

$2x = -2$

$3x = -3$

$4x = -4$

$x = -2$

$2x = -4$

$3x = -6$

$4x = -8$

$-x = 3$

$-2x = 6$

$-3x = 9$

$-4x = 12$

$-x = 4$

$-2x = 4$

$-3x = 9$

$-4x = 16$

$x \div 2 = -0$

$-x \div 3 = 0$

$x \div 4 = -0$

$-x \div 5 = 0$

$x \div 2 = -1$

$-x \div 3 = 1$

$x \div -4 = 1$

$x \div -5 = 1$

$-x \div -2 = 2$

$x \div -3 = -2$

$x \div -4 = -2$

$x \div 5 = -2$

$x \div -2 = -2$

$x \div 3 = -3$

$-x \div -4 = -4$

$x \div -5 = -5$

-2. Complete the table

$x$	$x-1$	$-2x$	$-2x+1$	$-3x$	$-3x+1$
0		0		0	
	2				
		6			
			11		
				21	
					31
14					
	17				
		66			
			83		
				81	
					301

-1. Complete the table

$x$	$-2x+2$	$-4x-3$	$-3x+2$	$-5x-3$	$-6x+1$
2					
	2				
		17			
			23		
				22	
					55
	24				
		65			
			83		
				87	
					301

0. Solve the equations:

$$2x+1=-1$$

$$2x+1=-3$$

$$2x+1=-5$$

$$2x+2=-2$$

$$2x+2=-4$$

$$2x+2=-6$$

$$3x-1=-1$$

$$3x-1=-4$$

$$3x-1=-7$$

$$3x-2=-2$$

$$3x-2=-5$$

$$3x-2=-8$$

$$-2x-1=-1$$

$$-2x-1=-3$$

$$-2x-1=-5$$

$$-2x-2=-2$$

$$-2x-2=-4$$

$$-2x-2=-6$$

$$-3x-1=2$$

$$-3x-1=5$$

$$-3x-1=8$$

$$-3x-2=1$$

$$-3x-2=4$$

$$-3x-2=7$$

0.875. Solve the equations:

$$2(x+1)=-2$$

$$2(x+1)=-4$$

$$2(x+1)=-6$$

$$2(x+2)=-12$$

$$2(x+2)=-4$$

$$2(x+2)=-6$$

$$3(x-1)=-3$$

$$3(x-1)=-12$$

$$3(x-1)=-6$$

$$3(2-x)=12$$

$$3(2-x)=9$$

$$3(2-x)=6$$

$$2(-2x+1)=2$$

$$2(-2x+1)=10$$

$$2(-2x+1)=6$$

$$2(-2x-2)=12$$

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

$$-2(2x+2)=-8$$

0.9375. Solve the equations:

$$x+1+1+1=1+1$$

$$1+1=x+1+1+1$$

$$1-x=1+1$$

$$1+1=1-x$$

$$x-x=x+1$$

$$x+1=x-x$$

$$x-x=1+x$$

$$1+x=x-x$$

$$2x=x-1$$

$$x-1=2x$$

$$2x=3-x$$

$$3-x=2x$$

$$3x=2x-1$$

$$2x-1=3x$$

$$3x=10-2x$$

$$10-2x=3x$$

$$3x = x - 2$$

$$x - 2 = 3x$$

$$3x = 4 - x$$

$$4 - x = 3x$$

$$2x - 1 = x - 2$$

$$x - 2 = 2x - 1$$

$$2x - 2 = x - 3$$

$$2x - 3 = x - 4$$

$$3x + 2 = 2x - 3$$

$$3x + 3 = 2x - 4$$

$$3x + 1 = x - 3$$

$$x + 3 = 3x - 1$$

$$-3x+2=-x+4$$

$$-3x+3=-x+5$$

$$-2(x+1)=x+4$$

$$-2(x+1)=x+7$$

$$3(1-x)=-2x+4$$

$$3(1-x)=-2x+5$$

$$2(-x+2)=-x+5$$

$$2(-x+2)=-x+4$$

1 Solve the equations:



$$\frac{x}{1}i-1$$

$$\frac{x}{1}i-2$$

$$\frac{x}{1}i-3$$

$$\frac{x}{2}i-1$$

$$\frac{x}{2}i-2$$

$$\frac{x}{2}i-3$$

$$\frac{x}{3}i-1$$

$$\frac{x}{3}i-2$$

$$\frac{x}{3}i-3$$

$$\frac{x}{4}i-1$$

$$\frac{x}{4}i-2$$

$$\frac{x}{4}i-3$$

$$\frac{x+1}{1}i-1$$

$$\frac{x+1}{1}i-2$$

$$\frac{x+1}{1}i-3$$

$$\frac{x+1}{2}i-1$$

$$\frac{x+1}{2}i-2$$

$$\frac{x+1}{2}i-3$$

$$\frac{x+1}{3}i-1$$

$$\frac{x+1}{3}i-2$$

$$\frac{x+1}{3}i-3$$

$$\frac{x+1}{4}i-1$$

$$\frac{x+1}{4}i-2$$

$$\frac{x+1}{4}i-3$$

$$\frac{x}{1}+1=-1$$

$$\frac{x}{1}+1=-2$$

$$\frac{x}{1}+1=-3$$

$$\frac{x}{2}+1=-1$$

$$\frac{x}{2}+1=-2$$

$$\frac{x}{2}+1=-3$$

$$\frac{x}{3}+1=-1$$

$$\frac{x}{3}+1=-2$$

$$\frac{x}{3}+1=-3$$

$$\frac{-x}{4}+1=1$$

$$\frac{-x}{4}+1=2$$

$$\frac{-x}{4}+1=3$$

$$\frac{x+1}{1}+1=-11$$

$$\frac{x+1}{1}+1=-2$$

$$\frac{x+1}{1}+1=-3$$

$$\frac{-x+1}{2}+1=11$$

$$\frac{-x+1}{2}+1=2$$

$$\frac{-x+1}{2}+1=3$$

$$\frac{-x+1}{3}+1=-11$$

$$\frac{-x+1}{3}+1=-2$$

$$\frac{-x+1}{3}+1=3$$

$$\frac{x+1}{-4}+1=-11$$

$$\frac{x+1}{-4}+1=-2$$

$$\frac{x+1}{-4}+1=-3$$

$$\frac{-x+1}{3}+1=-11+2$$

$$\frac{-x+1}{3}+1=-2+2$$

$$\frac{-x+1}{3}+1=-3+2$$

1.75. Solve the equations:

$$\frac{x}{2} + 3 = -x$$

$$x = 3 - i\frac{x}{2}$$

$$\frac{x}{3} - 4 = -x$$

$$x = 4 - i\frac{x}{3}$$

$$\frac{-x}{2} + 1 + 1 = x - 1$$

$$-x - 1 = 1 + 1 + i\frac{x}{2}$$

$$\frac{-x}{3} + 2 + 2 = x + 2 - 2$$

$$x + 2 - 2 = 2 + 2 + i \frac{-x}{3}$$

$$\frac{-x}{2} + 2 = x - 1$$

$$\frac{-x}{2} + 3 = -x + 2$$

$$\frac{-x}{3} - 3 = -x - 1$$

$$\frac{-x}{3} + 4 = -x + 2$$

$$\frac{x}{-4} + 5 = -x + 2$$

$$\frac{-x}{4} + 8 = 2 - x$$

$$\frac{-x}{-5} + 13 = x + 9$$

$$\frac{-x}{5} + 13 = -x + 5$$

$$\frac{-x+3}{2} \cdot x$$

$$\frac{-x+3}{2} + 1 = x + 1$$

$$\frac{x-2}{3} \cdot x$$

$$\frac{x-2}{3} + 1 = x + 1$$

$$\frac{-x+1}{2} + 2 = -x$$

$$\frac{-x+1}{3} + 3 = -x$$

$$\frac{x-3}{2} \cdot 2x$$

$$\frac{x-5}{3} \cdot 2x$$

$$\frac{-x+10}{2} - 3x$$

$$\frac{-x+24}{3} - 3x$$

$$\frac{x-1}{-2} + 2 = 1 - x$$

$$\frac{x-1}{-2} + 3 = 1 - x$$

$$\frac{x-2}{-3} + 5 = 1 - x$$

$$\frac{x-2}{-3} + 3 = 1 - x$$

$$\frac{x+3}{2} - 3 = 2x$$

$$\frac{x+5}{3} - 5 = 2x$$

$$\frac{-x+1}{2} - 7 = -3x$$

$$\frac{x-1}{3} - 5 = 3x$$

$$\frac{x-10}{2}-8=3x-3$$

$$\frac{x-24}{3}-20=3x-4$$

1.875. Solve the equations:

$$\frac{x}{1}=\frac{-1}{1}$$

$$\frac{x}{2}=\frac{-1}{2}$$

$$\frac{x}{3}=\frac{-1}{3}$$

$$\frac{x}{1}=\frac{-2}{1}$$

$$\frac{x}{2}=\frac{-2}{2}$$

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

$$\frac{x}{2}=\frac{1}{-1}$$

$$\frac{x}{4}=\frac{1}{-2}$$

$$\frac{x}{6}=\frac{1}{-3}$$

$$\frac{x}{-2}=\frac{2}{1}$$

$$\frac{x}{-4}=\frac{2}{2}$$

$$\frac{x}{-6}=\frac{2}{3}$$

$$\frac{-x}{1}=\frac{1}{1}+1$$

$$\frac{-x}{2}=\frac{1}{2}+1$$

$$\frac{-x}{3}=\frac{1}{3}+1$$

$$\frac{-x}{1}=\frac{2}{1}+1$$

$$\frac{-x}{2}=\frac{2}{2}+1$$

$$\frac{-x}{3}=\frac{2}{3}+1$$



$$\frac{-x}{2} = \frac{-1}{1} - 1$$

$$\frac{-x}{4} = \frac{-1}{2} - 1$$

$$\frac{-x}{6} = \frac{1}{3} - 1$$

$$\frac{x}{2} = \frac{2}{1} - 1$$

$$\frac{x}{4} = \frac{2}{2} - 1$$

$$\frac{x}{6} = \frac{2}{3} - 1$$

$$\frac{1-x}{2} + \frac{1}{1} + x = 0$$

$$\frac{1-x}{4} + \frac{1}{2} + x = 0$$

$$\frac{1-x}{6} + \frac{2}{3} + x = 0$$

$$\frac{1-x}{2} + \frac{2}{1} + x = 0$$

$$\frac{1-x}{4} + \frac{4}{2} + x = 0$$

$$\frac{1-x}{6} + \frac{7}{3} + x = 0$$

$$\frac{1-x}{3} + \frac{1}{1} + x = 0$$

$$\frac{1-x}{5} + \frac{3}{5} + x = 0$$

$$\frac{1-x}{7} + \frac{5}{7} + x = 0$$

$$\frac{1-x}{3} + \frac{3}{1} + x = 0$$

$$\frac{1-x}{5} + \frac{7}{5} + x = 0$$

$$\frac{1-x}{7} + \frac{11}{7} + x = 0$$

$$\frac{2-x}{4} - \frac{x}{2} + x = 0$$

$$\frac{6-x}{8} - \frac{x}{2} + x = 0$$

$$\frac{10-x}{12} - \frac{x}{2} + x = 0$$

$$\frac{2-x}{6} - \frac{x}{2} + x = 0$$

$$\frac{x-4}{-10} - \frac{x}{2} + x = 0$$

$$\frac{x-12}{-14} - \frac{x}{2} + x = 0$$

$$\frac{x-6}{4} = \frac{x-2}{2}$$

$$\frac{-x+13}{8} = \frac{1-x}{2}$$

$$\frac{x-21}{-12} = \frac{1-x}{2}$$

$$\frac{-x+5}{6} = \frac{x+1}{2}$$

$$\frac{-x+17}{10} = \frac{-x+1}{2}$$

$$\frac{x-25}{14} = \frac{-x+1}{-2}$$

2 Solve the equations:

$$\frac{1}{x} \text{ } \textcircled{1} - 1$$

$$\frac{2}{x} \text{ } \textcircled{1} - 2$$

$$\frac{3}{x} \text{ } \textcircled{1} - 3$$

$$\frac{4}{x} \text{ } \textcircled{1} - 4$$

$$\frac{-1}{x} \text{ } \textcircled{1} - 1$$

$$\frac{-2}{x} \text{ } \textcircled{1} - 1$$

$$\frac{-3}{x} \text{ } \textcircled{1} - 1$$

$$\frac{-4}{x} \text{ } \textcircled{1} - 1$$

$$\frac{1}{x+1} \text{ } \textcircled{1} - 1$$

$$\frac{2}{x-1} \text{ } \textcircled{1} - 2$$

$$\frac{3}{x-1} \text{ } \textcircled{1} - 3$$

$$\frac{4}{x-1} \text{ } \textcircled{1} - 4$$

$$\frac{1}{x-1} \text{ } \textcircled{1} - 1$$

$$\frac{2}{x-1} \text{ } \textcircled{1} - 1$$

$$\frac{3}{x-1} \text{ } \textcircled{1} - 1$$

$$\frac{4}{x-1} \text{ } \textcircled{1} - 1$$

$$\frac{1}{x} = \frac{1}{-1}$$

$$\frac{1}{-x} = \frac{1}{-2}$$

$$\frac{-1}{x} = \frac{1}{3}$$

$$\frac{1}{x} = \frac{-1}{4}$$

$$\frac{-2}{x} = \frac{1}{-1}$$

$$\frac{2}{x} = \frac{-1}{-2}$$

$$\frac{-2}{x} = \frac{1}{3}$$

$$\frac{-2}{x} = \frac{-1}{4}$$

$$\frac{-2}{-x} = \frac{-2}{1}$$

$$\frac{-2}{x} = \frac{-2}{2}$$

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

$$\frac{-2}{-x} = \frac{-2}{4}$$