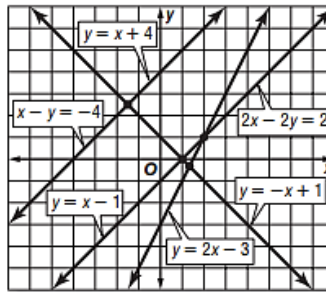


**Algebra 1CP Unit 5 practice test** Show your work where needed and write your answer in the space provided

Use the graph at the right to determine whether each system has *no* solution, *one* solution, or *infinitely many* solutions.



- 1) \_\_\_\_\_
- 2) \_\_\_\_\_
- 3) \_\_\_\_\_
- 4) \_\_\_\_\_
- 5) \_\_\_\_\_
- 6) \_\_\_\_\_
- 7) \_\_\_\_\_
- 8) \_\_\_\_\_
- 9) \_\_\_\_\_
- 10) \_\_\_\_\_

1.  $y = x - 1$   
 $y = -x + 1$

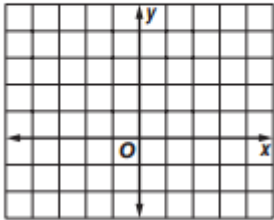
2.  $x - y = -4$   
 $y = x + 4$

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

4.  $y = 2x - 3$   
 $2x - 2y = 2$

Solve the following system of equations by **graphing**

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



5)

Solve the following systems of equation by **substitution**

6)  $x = -4y$   
 $3x + 2y = 20$

7)  $y = 5x - 8$   
 $4x + 3y = 33$

8)  $y = 4x - 1$   
 $y = 2x - 5$

Solve the following systems of equation by **elimination**

9)  $5x + 2y = -3$   
 $3x + 3y = 9$

10)  $2x - 3y = 9$   
 $-5x - 3y = 30$

11)

$$\begin{aligned} x - y &= 1 \\ x + y &= 3 \end{aligned}$$

12)

$$\begin{aligned} 2x + 8y &= 6 \\ -5x - 20y &= -15 \end{aligned}$$

**Solve the following problems using the charts below**

13) Anya makes 14 baskets during her game. Some of these baskets were worth 2-points and others were worth 3-points. In total, she scored 30 points. Write and solve a system of equations to find how 2-points baskets she made.

Define variables:	↓	↗	↖	Solve the system, showing all steps:
System of equations :				
State your solution:				
				Elimination      Substitution      Graphing

14) A Pizza restaurant offers the following deals: Deal #1: \$8.99 for one large pizza and \$5 for each additional large pizza on the same order. Deal#2: \$5.99 per large pizza. At what point are both deals equal?

Define variables:	↓	↗	↖	Solve the system, showing all steps:
System of equations :				
State your solution:				
				Elimination      Substitution      Graphing

**Extra credit:** When is each deal above a better deal? Show your work and explain.