Honors Algebra 1 Summer Problem Set

Date_____ Period____

Solve each equation. Show your work.

1) $7 = -7k$

2) $x + 12 = -7$

3) $-9n = -180$

4) $21 = 6 + b$

5) $k - 6 = -16$

6) $\frac{v}{15} = 4$

7) $3 = 2 + a$

8) $12 = 16 - k$

9) $-3 - 10b = -53$

10) $270 = -10(-10 + b)$

11) $-15 = \frac{n}{-2} - 8$

12) $1 = \frac{6 + n}{21}$

13) $-92 = 10 + 6v$

14) $-10k + 10 = -80$

15) $5k - 10 = 90$

16) $-27 = 9(-1 + p)$

17) $1 + 2a = 6 - 6a + 3a$

18) $5n + 3 = -9 + 2n + 7n$

19) $-2(7 - 7k) + 8k = 40 + 4k$

20) $8m - 3(-1 - 2m) = 8m - 33$

21) $2 - 6(8 - 5x) = -x + 16$

22) $4(4x - 6) = 6x + 16$

23) $7(1 + 5x) + 8(x - 7) = -8x + 2x$

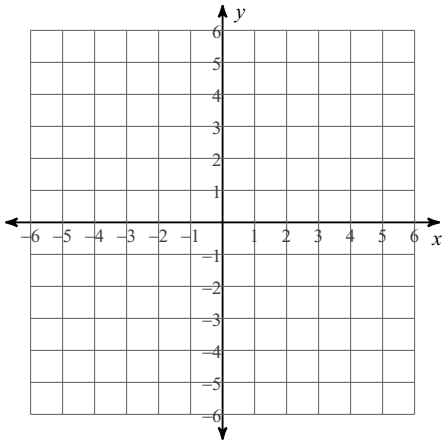
24) $-(1 - 8p) - (5p + 1) = -2 + p - 2$

25) $-5m - (4 + 6m) = -7m - 3(2m + 6)$

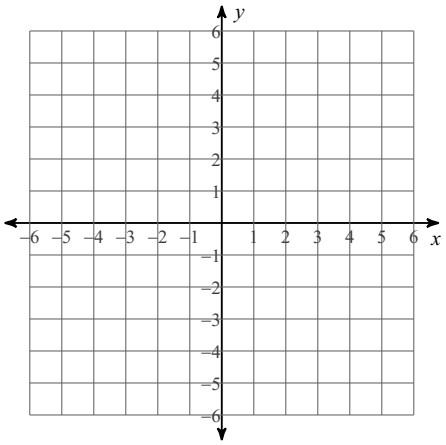
26) $-7(r + 1) = -3(7r - 7)$

Sketch the graph of each line.

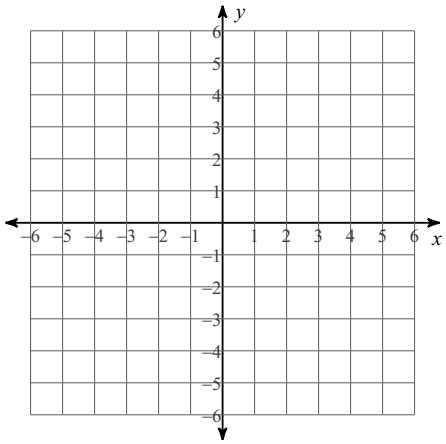
27) $y = -4x$



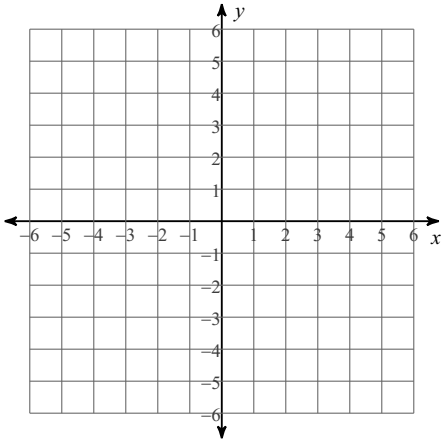
28) $y = \frac{2}{5}x - 2$



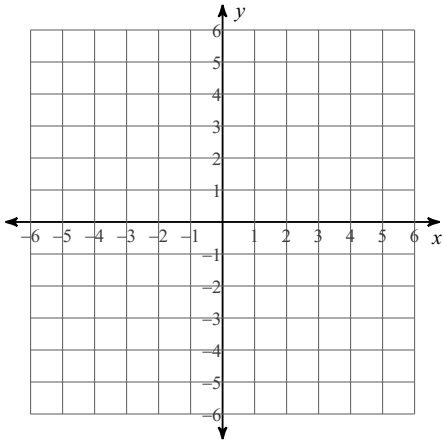
29) $y = \frac{3}{2}x - 1$



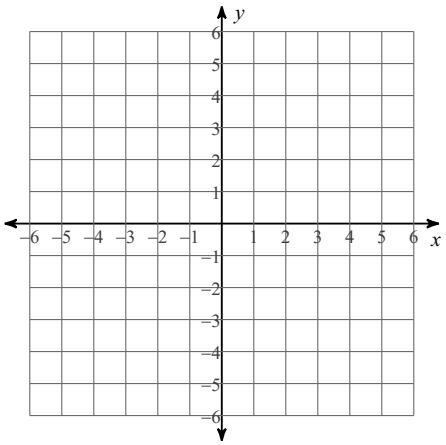
30) $y = 2x - 2$



31) $y = x + 2$



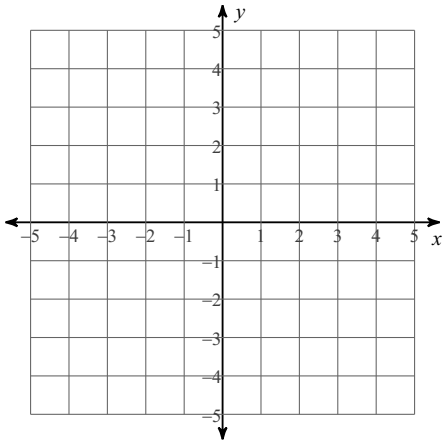
32) $y = \frac{1}{3}x + 1$



Solve each system by graphing. After graphing, write the solution below the graph.

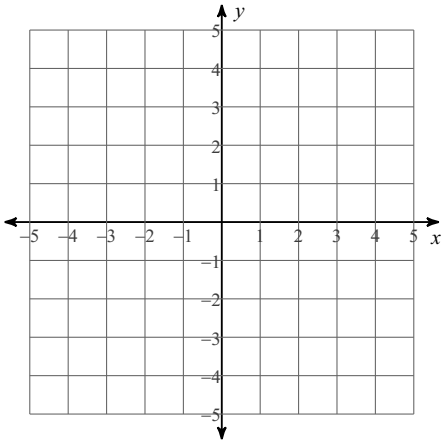
33) $y = -\frac{1}{4}x + 1$

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



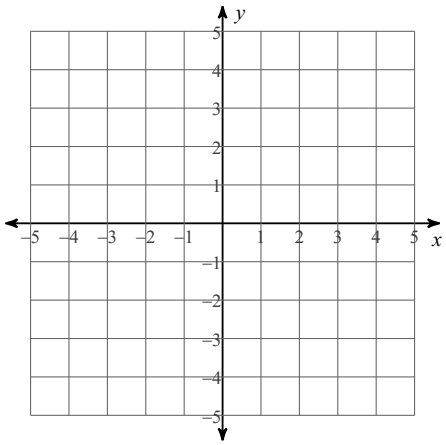
34) $y = \frac{1}{3}x + 4$

$y = -2x - 3$



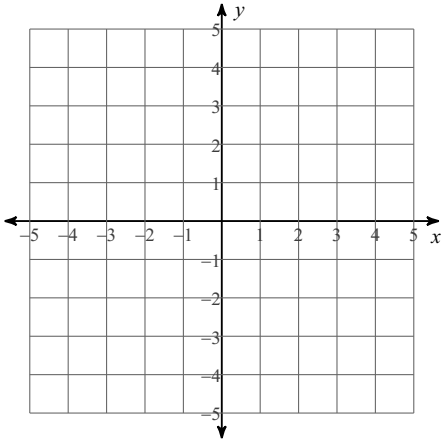
35) $y = -x + 4$

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



36) $y = -6x - 2$

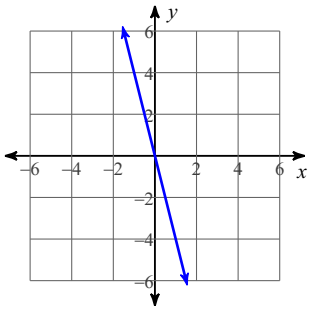
$y = -x + 3$



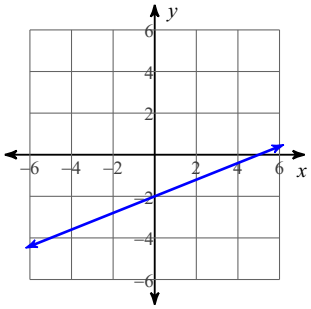
37) List the prime numbers between 0 and 100.

Answers to Honors Algebra 1 Summer Problem Set (ID: 1)

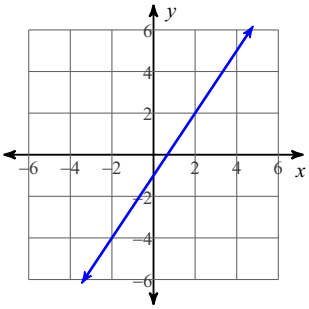
1) $\{-1\}$
2) $\{-19\}$
3) $\{20\}$
4) $\{15\}$
5) $\{-10\}$
6) $\{60\}$
7) $\{1\}$
8) $\{4\}$
9) $\{5\}$
10) $\{-17\}$
11) $\{14\}$
12) $\{15\}$
13) $\{-17\}$
14) $\{9\}$
15) $\{20\}$
16) $\{-2\}$
17) $\{1\}$
18) $\{3\}$
19) $\{3\}$
20) $\{-6\}$
21) $\{2\}$
22) $\{4\}$
23) $\{1\}$
24) $\{-1\}$
25) $\{-7\}$
26) $\{2\}$
27)



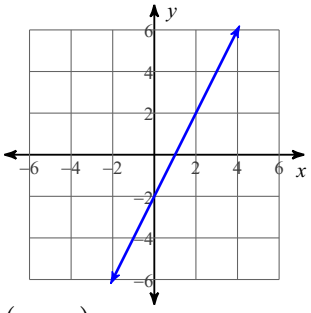
28)



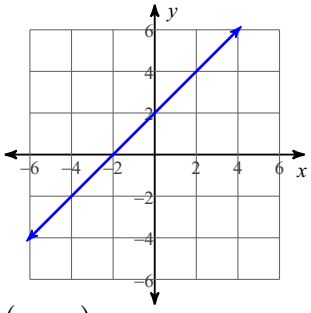
29)



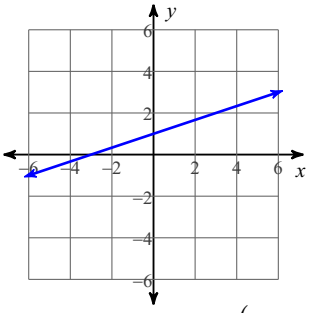
30)



31)



32)



33) $(-4, 2)$
34) $(-3, 3)$
35) $(2, 2)$
36) $(-1, 4)$
37) 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89