

Ch 3 "PRACTICE TEST" Algebra II Honors

A) Solve by graphing:

1) $2x + 2y = 6$ 2) $x - \frac{1}{2}y = 3$ 3) $3x + 3y = 0$
 $2x - 2y = 6$ $2x - y = 6$ $x = y + 5$

B) Solve: (use either substitution or linear comb.)

4) $x - 3y = 10$ 5) $3x - y = 10$ 6) $3m + 4n = 12$
 $x + 3y = 20$ $5x + 4y = 15$ $2m + 3n = 8$

7) $4m = 6n - 6$ 8) $x + y = 8$ 9) $3x = 2y + 7$
 $m + 3n = 12$ $x - y = 2$ $x = 5y - 28$

10) $2u = 3v - 11$ 11) $2x - 10y = 4$
 $12 = 3u - 5v$ $27x - 87y = 150$

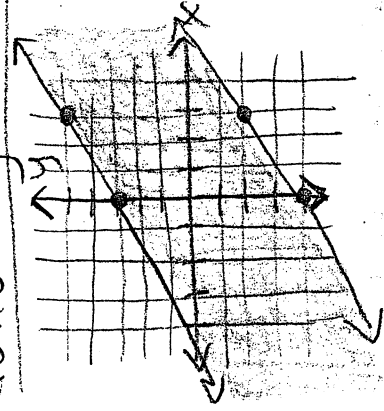
C) The sum of 2 numbers is 33. Their difference is one. Find the numbers.

13) Ten more than four times a number is twice another number. The sum of the 2 numbers is 80. Find the numbers.

D) Graph each system of inequalities:

14) $x > -4$ 15) $3x + 4y \leq 12$
 $y \leq 2x + 3$ $2y \geq 8$

E) Write a system of inequalities that has the following solution set:



F) Solve:

17) $3x + \frac{1}{4}y = 5$
 $x - \frac{2}{3}y = 2$

18) $5x - 3y = 2$
 $2x + y = -6$

(19) $4x - 6y = 3$
 $5x + 4y = 8$

(20) $3x + y = 1$
 $x - 2y = 12$

(21) $\frac{1}{x+4} = \frac{10}{y-5}$
 $\frac{3}{x+2} = \frac{1}{y-7}$

(22) $5x + 4y = 3x + 6$
 $x + 7y = y$

(23) $\frac{3}{4}x + \frac{1}{2}y = 15$
 $\frac{5}{8}x + \frac{1}{2}y = 12$

(24) $4x - 3y = 5$
 $4y = 5 - 3x$

(25) $2x + y = 8$
 $x = 5 - \frac{1}{2}y$

(26) 5 times one number equals 3 times the other.
7 times the first number is 11 less than
twice the other. Find the number.

(27) Which quadrant contains the solution to

$3x + y = 10$
 $2x + y = 5$?

(28) (29) (30)

State whether problems #1, 2, 3 are

- a) consistent and dependent
- b) consistent and independent
- c) inconsistent

(31) T or F: If a system of equations has
the same slope, then the lines
are parallel.

(32) T or F: If a system of equations has
the same slope and the same
intercepts, then the system has
only one solution.

(33) A system of inequalities that has $x > 16$
and $y > 16$ is located in which quadrant?

F.V.1.

#3.4, #3.5, #3.6 Practice 2s have not been
included on here.