

Test 1 Practice #1

- * SYSTEMS OF EQUATIONS $\frac{2}{\text{GRAPH}}$
- + SYSTEMS OF INEQUALITIES
- * QUADRATICS - SOLVE + GRAPH
- * FACTORING

1) Solve the systems of equations

$$5x - 7y = 54$$

$$2x - 4y = 30$$

2) multiply $(3x - 5)(x - 7)$

3) A barn shelters 10 animals.
Some are pigs and some are ducks.
Altogether, there are 36 Legs. How
many of each animal are there?

$$\text{LET } P = \# \text{ OF PIGS}$$

$$D = \# \text{ OF DUCKS}$$

4) Systems of inequalities

Graph $3x + 4y \leq 12$

$$y \leq 3x + 5$$

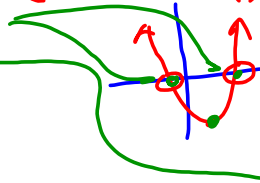
$$y \geq -2$$

QUADRATIC EQUATIONS

* A. GRAPH (FIND VERTEX)

* B. SOLVE

5) $y = x^2 - 4x - 5$



6) $y = 3x^2 + 6x - 2$

FACTORING

7) $x^2 - 4x + 4$

8) $x^2 - 18x + 81$

9) $4x^2 + 3x - 27$

10) $x^2 - 36$