Math 10P Exam Review Part 3 Name_____

Units 2 & 4: Equations and Quadratics /18K /14T /13C

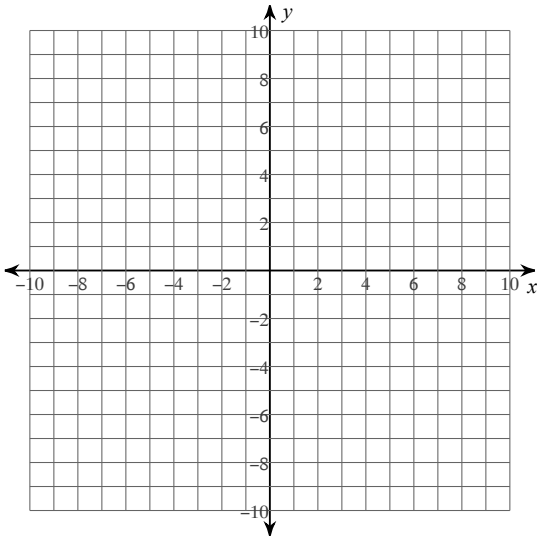
Solving Systems of Equations

1) What does it mean to find the point of intersection? __1C

Solve each system by graphing. ___5C

2) $y = -\frac{4}{3}x + 9$

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



Solve the system by substitution. ___4T

3) $-4x - 7y = -11$

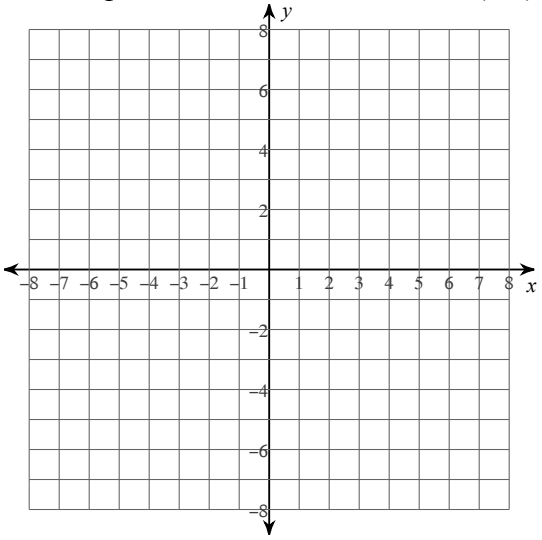
$y = -3x - 13$

Solve the system by elimination. ___4T

4) $6x - 18y = -6$
$-2x - 9y = -28$

Quadratics.

5) Draw a parabola that has a vertex of (2,6), a y-intercept of 4.5, and zeros of -2 and 6. ___3C



Multiply the Binomials. ___2K ___2K

6) $(4x + 3)(x + 6)$

7) $2(5x + 7)(6x - 5)$

Factor each completely. ___2K ___3K ___2K

8) $x^2 + 8x - 20$

9) $5x^2 + 30x + 40$

10) $25n^2 - 16$

Do these steps:
a) Covert from Standard Form to Zeros form by Factoring. __2T
b) State the zeros from the Factored Form. __1T
c) Calculate the AoS (the h). __1T
d) Calculate the Max/Min Value (the k). __1T
e) State the Vertex. __1T

11) $y = 4x^2 + 24x - 220$

Do these steps:
a) State the vertex. __1K
b) Expand from Vertex Form to Standard Form. __2K
c) State the y-intercept. __1K

12) $y = 5(x + 6)^2 - 12$

Do these steps:
a) Fill in these blanks: a= ____ h= ____ k=____ ___3K
b) Write the original table of values for $y = x^2$. ___1C
c) Write the transformed table of values using a, h, and k. ___2C
d) Graph! ___1C

13) $y = 2(x - 4)^2 + 1$