Adv Alg   Name: _____
                                               Date: _____ Pd_____

PRACTICE AA1 UNIT TEST
AA1Creating & Solving Equations

**Read the directions, then do the problems. Show all your work.

C LEVEL

1. Simplify $\sqrt{32}$

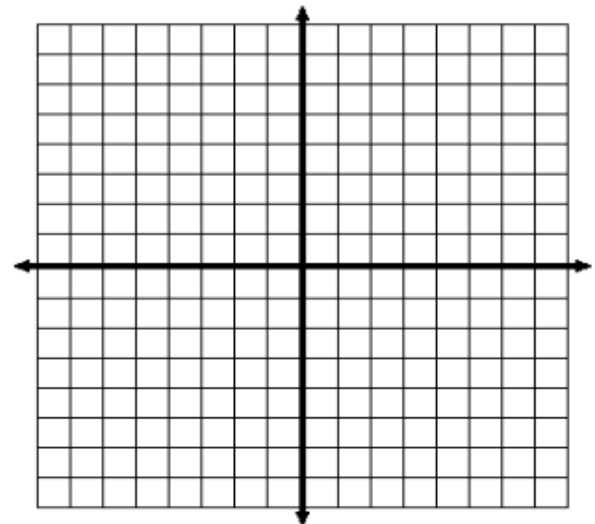7. Solve $\sqrt{x+5} = 4$

2. Solve $| x - 12 | = 6$

8. Solve for "x": $y = ax - c$

3. Solve $-3x > 9$

4. Simplify $x^3 x^4$

9. Graph the solution of $y < \frac{2}{3} x - 2$

5. Solve $x^2 + 9x + 20 = 0$
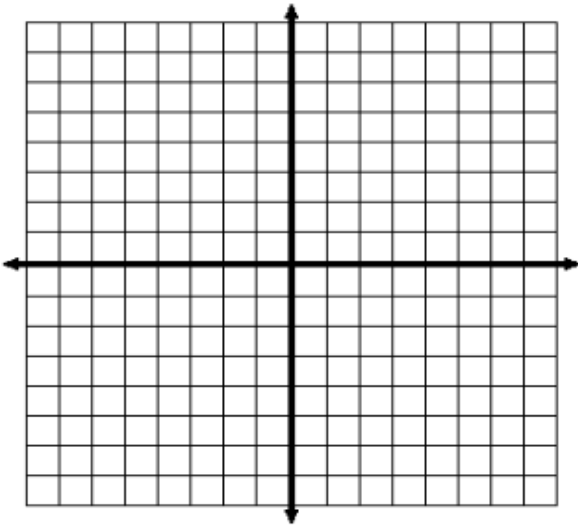

6. Solve $\frac{x+2}{2} = \frac{2x}{7}$

1. Solve $2|x - 5| + 4 = 10$

2. $4(1 - 3x) \geq 40$

3. Solve the system of linear inequalities graphically.
   $y > 2x - 3$
   $y \leq \frac{1}{5}x + 1$

4. Solve $2x^2 - 4x - 30 = 0$

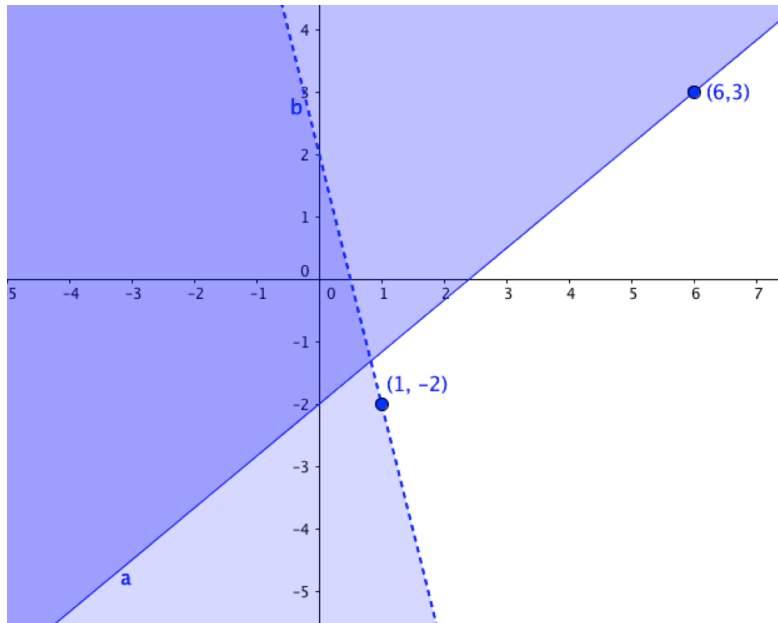5. Solve $\frac{x+3}{x+2} = 1 - \frac{x+1}{x+2}$ [CD = (x+2)]

6. Solve $2\sqrt{x - 2} + 3 = 15$

7. Simplify $2\sqrt{288}$

8. Solve for b: $\frac{b+a}{2} = \frac{c}{5}$

9. Simplify $(3x^4y)^2$

10. Write the system of inequalities for the system of inequalities.

a) _____

b) _____