

PRACTICE AA1 UNIT TEST
AA1 Creating & Solving Equations

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

C LEVEL

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

2. Solve $-3x > 9$

3. Simplify x^3x^4

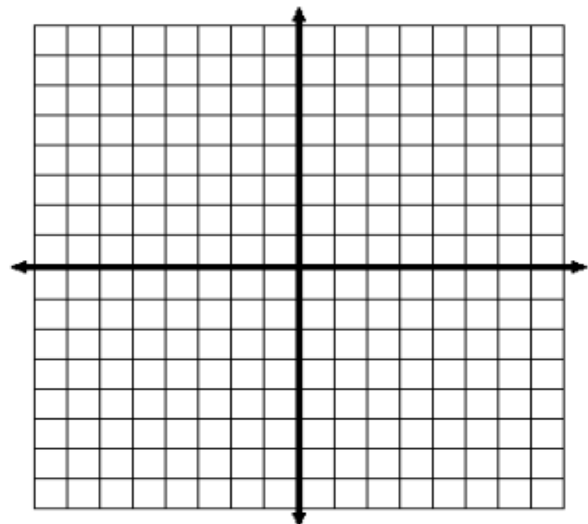
4. Solve $x^2 + 9x + 20 = 0$

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

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

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

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



B LEVEL

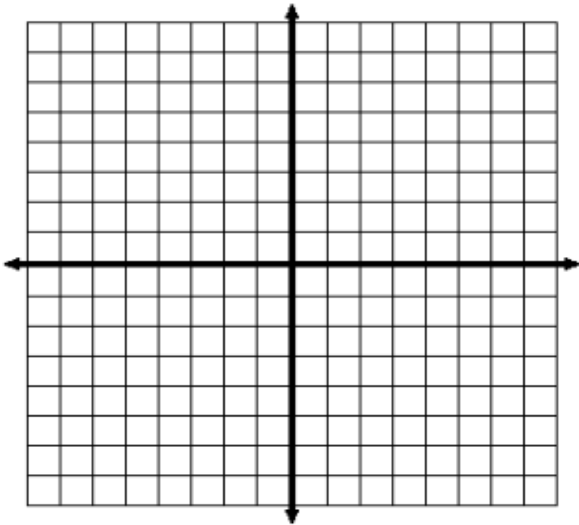
1. Solve $2|x - 5| + 4 = 10$

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

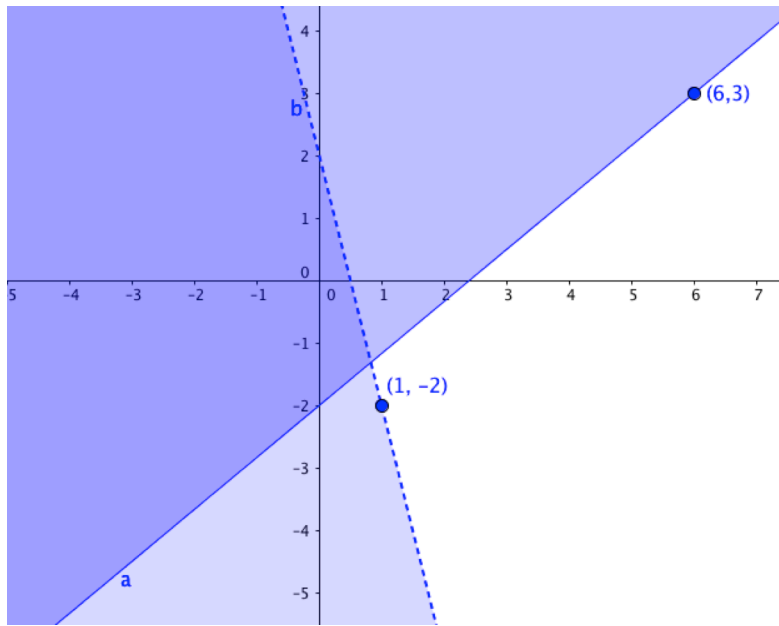
5. Solve $\frac{x+3}{x+2} = 1 - \frac{x+1}{x+2}$

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

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

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

9. Write the system of inequalities for the system of inequalities.



a) _____

b) _____