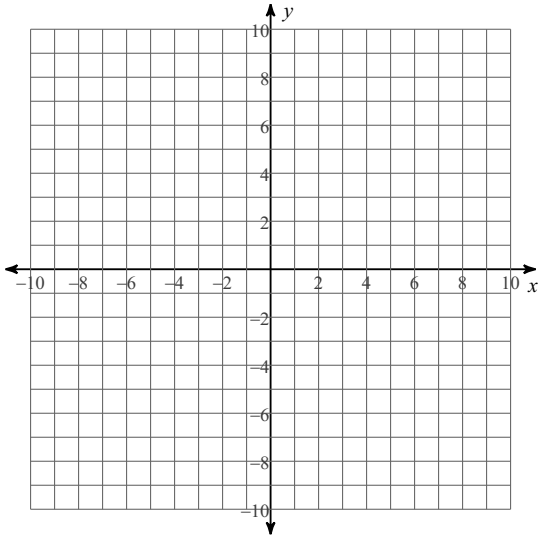


## 4.2 Test Review

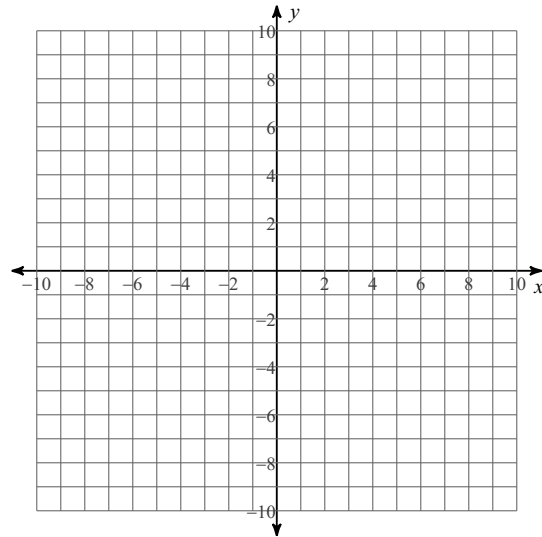
Period \_\_\_\_\_ Number \_\_\_\_\_

Sketch the solution to each system of inequalities.

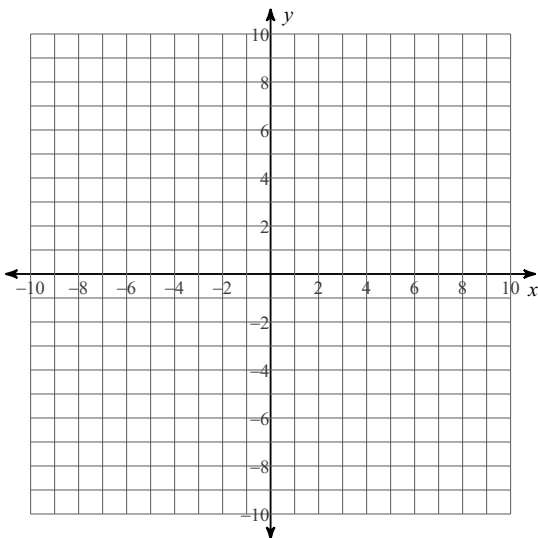
$$1) \begin{aligned} y &< -2x - 3 \\ y &\leq -2x + 4 \end{aligned}$$



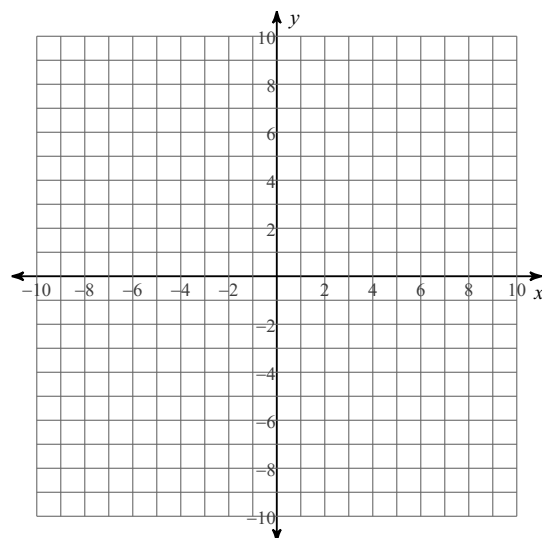
$$2) \begin{aligned} y &> -\frac{5}{7}x - 7 \\ y &< -\frac{5}{7}x + 1 \end{aligned}$$



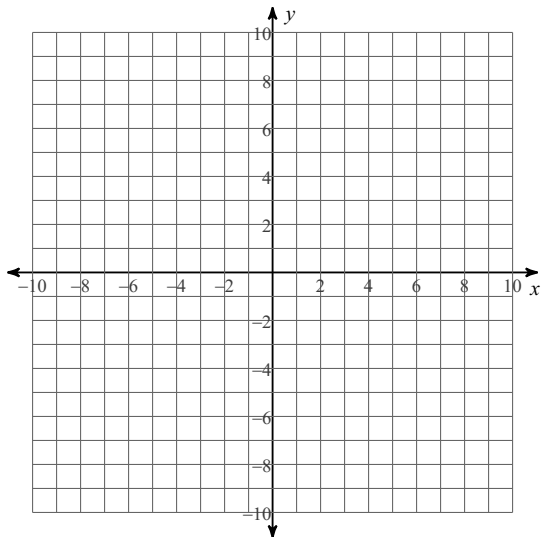
$$3) \begin{aligned} y &\geq \frac{3}{4}x - 3 \\ y &\geq 3x + 6 \end{aligned}$$



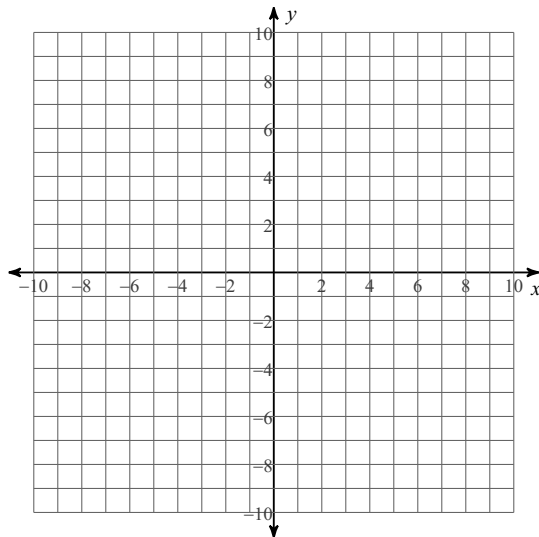
$$4) \begin{aligned} y &> \frac{3}{2}x - 4 \\ y &\geq \frac{3}{8}x + 5 \end{aligned}$$



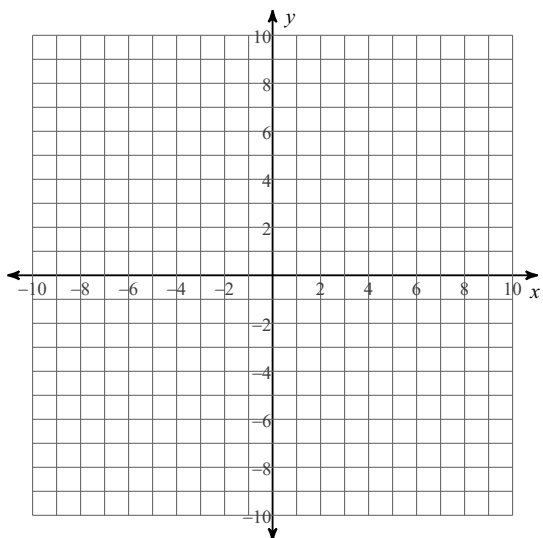
5)  $7x + 8y < 8$   
 $x - 4y \geq 32$



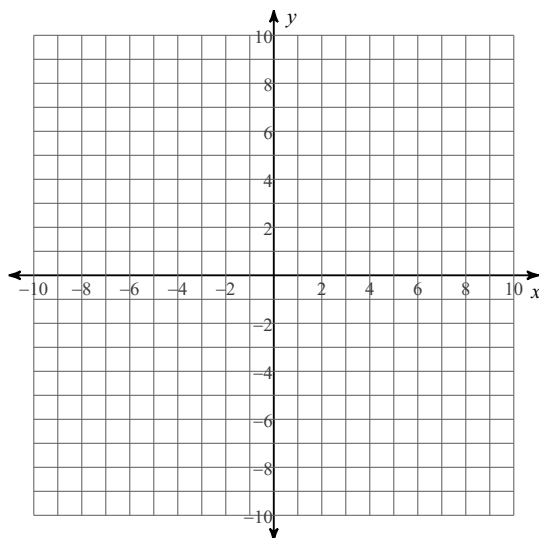
6)  $x - y \leq 8$   
 $x + y < 6$



7)  $x - y \geq 7$   
 $y < -5$



8)  $3x - y > -4$   
 $4x + y < -3$

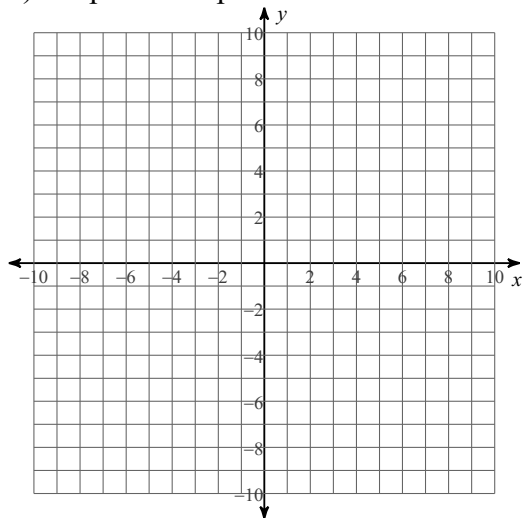


9) Zaidee is throwing a par-taaaaay and needs some treats. She wanted to buy pies and cheesecakes at Stoke's. Cheesecakes were on sale for \$5 a piece and pies were \$10. Her mom only gave her \$70 to spend, and her mom told her that she could only buy 10 desserts.

a) Write a systems of inequalities to describe the situation.

b) Tell me what each variable stands for.

c) Graph all the possible solutions.



10) Make a systems of inequalities that has no solution.

Both inequalities have to have an "x" and "y" in them.

One line has to be solid and the other has to be dotted.

Write the inequalities that go with your lines and shading.

Put your inequalities in slope-intercept form and circle them.

Put your inequalities in standard form and put a box around them.

