

Systems of Inequalities Graph Attack

Graphing Systems of Inequalities

Objective: In this activity, students practice graphing systems of linear inequalities given inequalities in slope-intercept form.

How it works: Students will graph four systems on one large coordinate plane. As they do, they'll try to quarantine a herd of mad cows. If they quarantine all the cows in four separate, non-overlapping areas, they'll know they're on track! This activity brings a welcome element of fun to solving systems.

Directions: Just print and go! This works well in class or at home!

Graph Attack: Systems of Inequalities

Name: _____

It isn't safe anymore. Something must have gotten in the water. The cows are all crazy. They're getting bigger—fast. They have radioactive drool. And they're getting smarter.

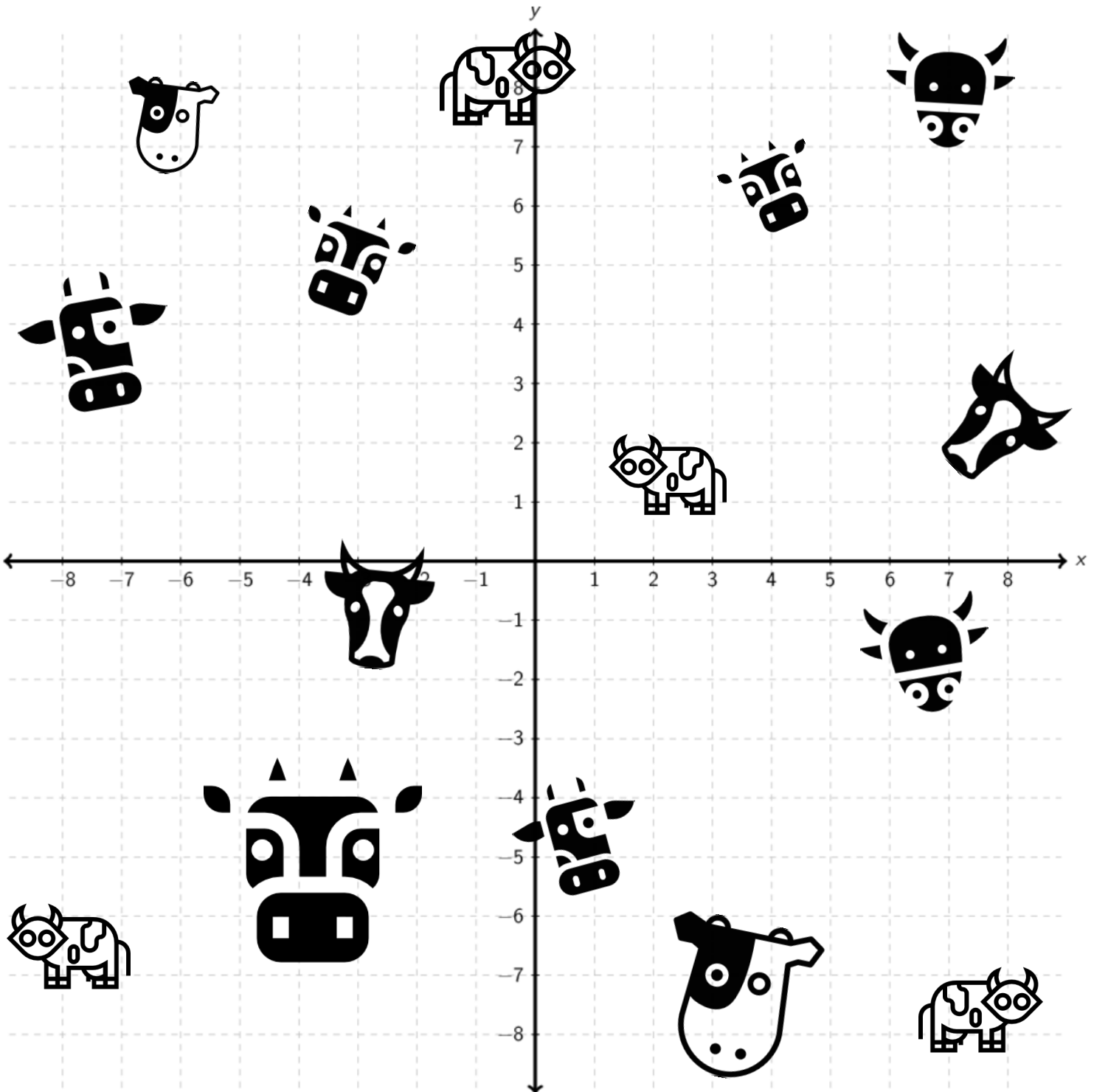
We need to trap them before they escape and infect anything else. They've broken through all the regular fences... so it's time for laser fences. There are lots of cows, but there are only four fences. For this to work, you'll have to trap lots of cows in each one. Work fast. They're looking this way.

A. $f(x) < \frac{1}{4}x + 2$
 $f(x) \geq -\frac{4}{5}x + 2$

B. $f(x) > \frac{1}{2}x + 3$
 $f(x) \leq 3x - 2$

C. $f(x) \geq \frac{6}{5}x + 7$
 $f(x) > -\frac{2}{5}x - 1$

D. $f(x) < x + 4$
 $f(x) \leq -\frac{2}{3}x - 1$



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Answer Key

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