

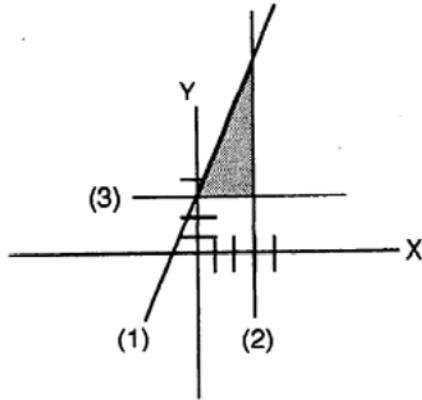
Don't Fence Me In #1



Graph the following equations and find the area of the region enclosed.

Example:

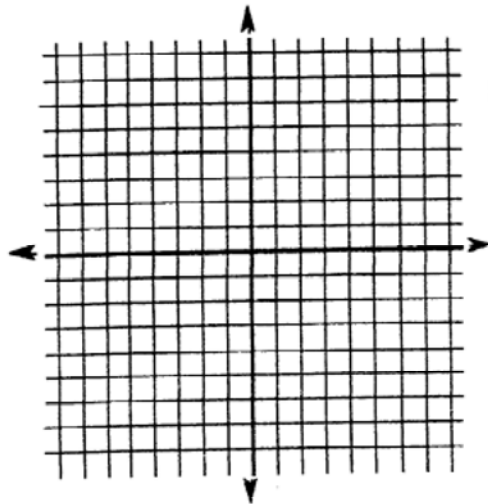
- Lines:
 1. $y = 2x + 3$
 2. $x = 3$
 3. $y = 3$



The region enclosed is a triangle with a base of 3 and a height of 6, so $A = \frac{1}{2} b \cdot h$ or $A = \frac{1}{2} (3) \cdot 6 = 9$ square units

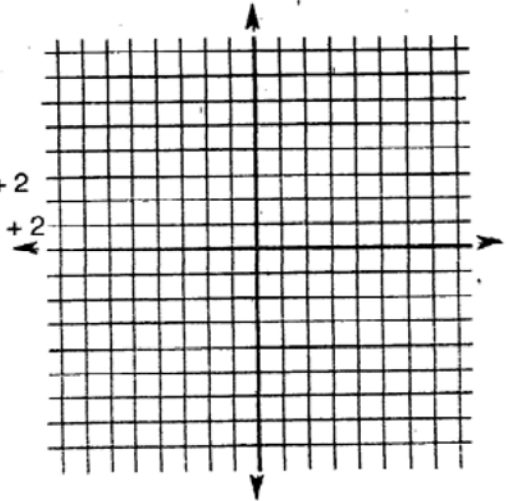
1. Lines:

- $x = -2$
 $y = -3$
 $x = 3$
 $y = 3$



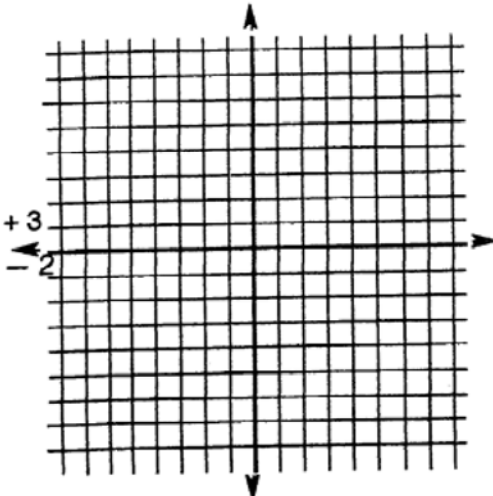
2. Lines:

- $x = 2$
 $y = x + 2$
 $y = 3x + 2$



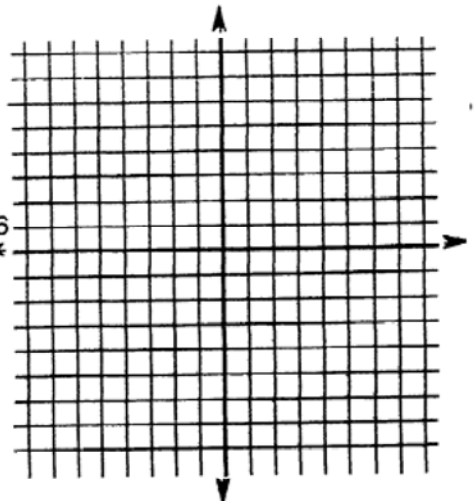
3. Lines:

- $x = -3$
 $x = 1$
 $y = -2x + 3$
 $y = -2x - 2$



4. Lines:

- $y = 4$
 $y = -2$
 $x + y = 6$
 $x = -3$



Scrambled answers for areas: 4, 24, 30, 48, 20