

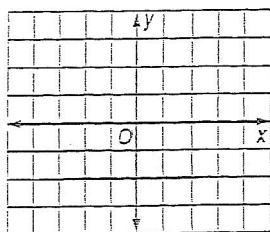
SECONDARY MATH III
UNIT 2/3 LINEAR RELATIONS/SYSTEMS OF EQUATIONS
WS 3.1 SOLVING SYSTEMS BY GRAPHING

NAME _____
HR _____
DATE _____

Solve each system of equations by graphing. Sketch the graphs and use your "Intersect" button on your calculator.

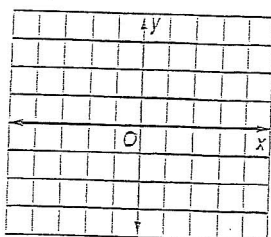
1. $x - 2y = 0$

$y = 2x - 3$



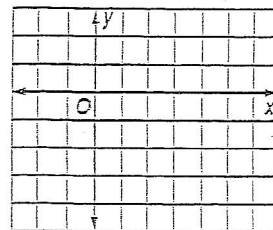
2. $x + 2y = 4$

$2x - 3y = 1$



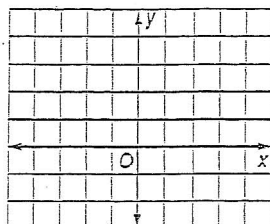
3. $2x + y = 3$

$y = \frac{1}{2}x - \frac{9}{2}$



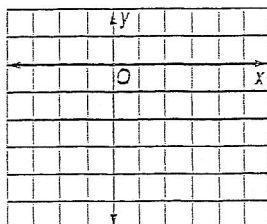
4. $y - x = 3$

$y = 1$



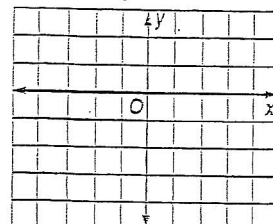
5. $2x - y = 6$

$x + 2y = -2$



6. $5x - y = 4$

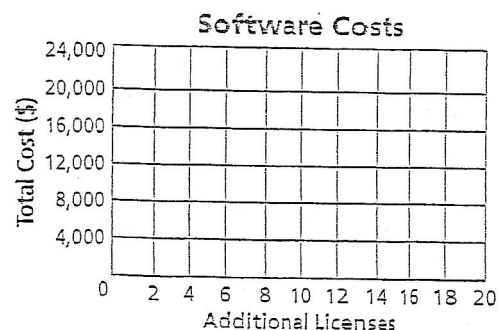
$-2x + 6y = 4$



Hurricane High School needs new software. Software A costs \$13,000 plus \$500 per additional site license. Software B cost \$2500 plus \$1200 per additional site license.

7. Write two equations that represent the cost of each software option.

8. Graph the equations. Estimate the break-even point of the software costs.



9. If Hurricane High plans to buy 10 site licenses, which software will cost less?