

Ready, Set, Go!**Ready**© 2012 www.flickr.com/photos/photosteve101

Topic: Determine patterns

Find the next two values in the pattern. Describe how you determined these values.

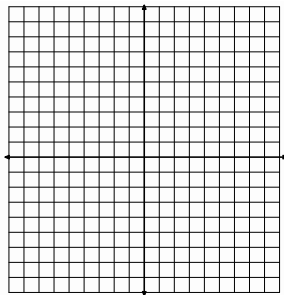
1. 3, 6, 9, 12, ____, ____ Description:
2. 3, 6, 12, 24, ____, ____ Description:
3. 24, 20, 16, 12, ____, ____ Description:
4. 24, 12, 6, 3, ____, ____ Description:

Set

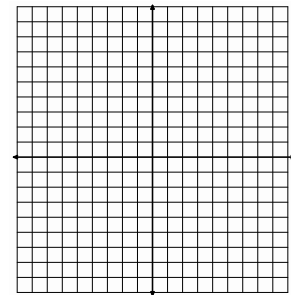
Topic: Solve systems of equations using substitution

For questions 5-8 solve the system of equations using substitution. Check your work by graphing.

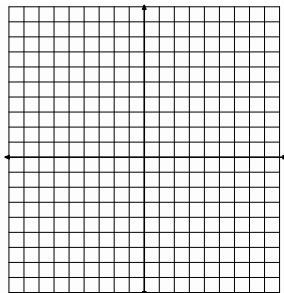
$$5. \begin{cases} x + 2y = 9 \\ 3x + 5y = 20 \end{cases}$$



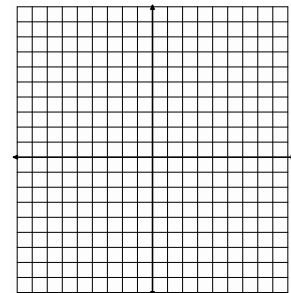
$$6. \begin{cases} -4y + 8x = 16 \\ 3y + 21x = 15 \end{cases}$$



$$7. \begin{cases} x + 2y = -1 \\ 3x + 5y = -1 \end{cases}$$



$$8. \begin{cases} y = 2x - 3 \\ x + y = -5 \end{cases}$$



9. Tickets to a show cost \$10 in advance and \$15 at the door. If 120 tickets are sold for a total of \$1390, how many of the tickets were bought in advance?

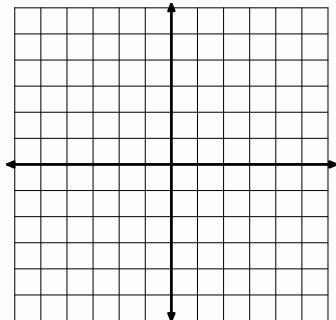


Go

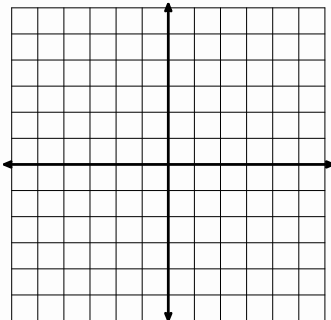
Topic: Graph two variable inequalities

Graph the following inequalities.

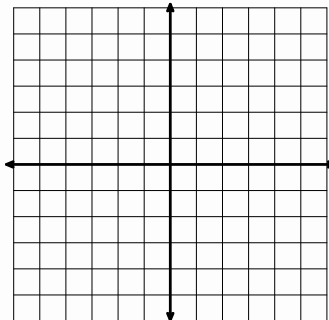
10. $y \leq 3x - 4$



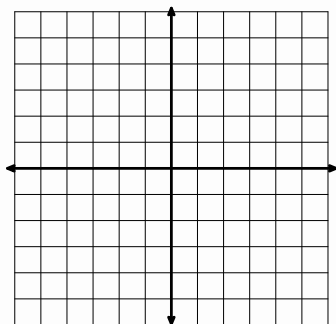
11. $y \leq -2x + 3$



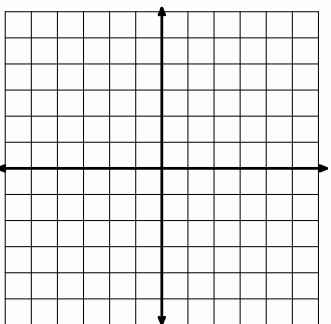
12. $y \geq 4x - 3$



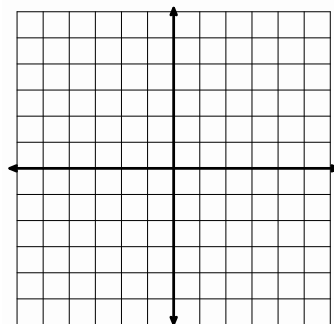
13. $3x + 4y < 12$



14. $6x + 8y \leq 24$



15. $5x + 43 \leq 15$



Need help? Check out these related videos.

<http://www.khanacademy.org/math/algebra/systems-of-eq-and-ineq/v/solving-systems-by-substitution-3><http://www.khanacademy.org/math/algebra/linear-equations-and-inequalitie/v/solving-and-graphing-linear-inequalities-in-two-variables-1><http://www.khanacademy.org/math/algebra/linear-equations-and-inequalitie/v/graphing-inequalities-2>