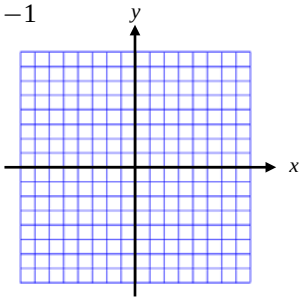
Algebra 2 Name: _____

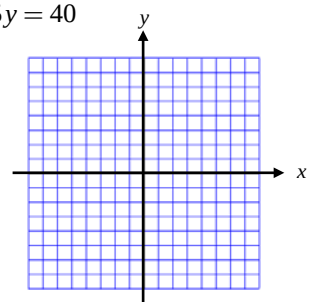
Slope-Intercept Form, Standard Form, and Domain/Range WS Block: _____

For questions 1 - 6, graph each equation.

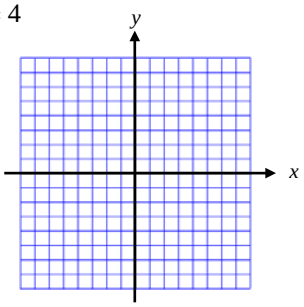
1. $y = \frac{2}{5}x - 1$



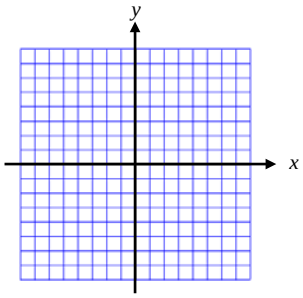
2. $10x - 5y = 40$



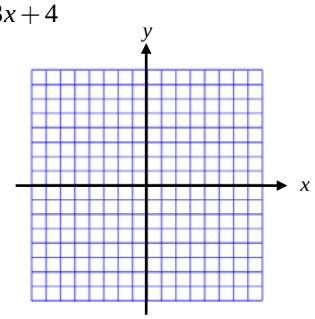
3. $x = 4$



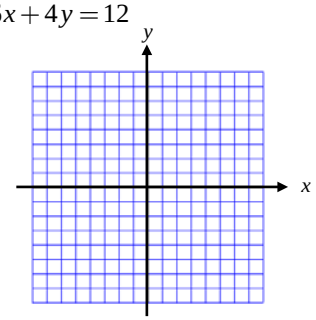
4. $y = -3$



5. $y = -3x + 4$



6. $-6x + 4y = 12$

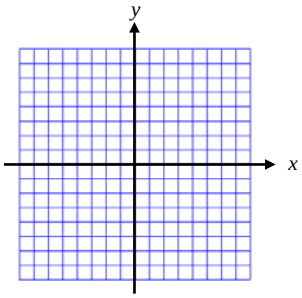


For questions 7 and 8, graph the function and state the domain and range.

7. $f(x) = 5 - 2x$ if $x \leq 3$

Domain: _____

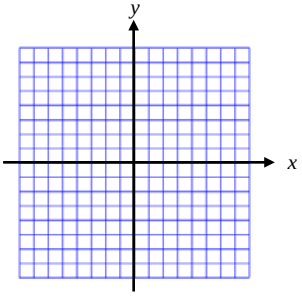
Range: _____



8. $g(x) = \frac{3}{4}x + 2$ if $x \geq -4$

Domain: _____

Range: _____



9. What is the slope of a horizontal line?

_____

10. What is the slope of a vertical line?

_____

For questions 11 - 14, suppose you are given the two points *P* (5, 9) and *Q* (–3, 5).

11. Write the equation of the horizontal line that passes through Q.

12. Write the equation of the vertical line that passes through Q.

13. Write the equation of the line that passes through P and Q using slope-intercept form.

14. Write the equation of the line that passes through P and Q using standard form.