

## Feb 10 CW: Rewrite an equation in slope-intercept or standard form

Answer the questions in the spaces provided on the question sheets. Be sure to **show your work to earn full credit**. You **MAY** use a calculator to help you. If you run out of room for an answer, raise your hand to ask for an extra piece of paper.

Name and period: \_\_\_\_\_

- 1) Solve the equation  $x + 5 = 15$ .
  - a) Distribute.
  - b) Eliminate a constant from the LHS
  - c) Eliminate a constant from the RHS
  - d) Eliminate  $x$  from the LHS
  - e) Eliminate  $x$  from the RHS
  - f) Eliminate  $y$  from the LHS
  - g) Eliminate  $y$  from the RHS
  - h) Combine like terms.
  - i) Divide both sides by the GCF of the coefficients
  - j) Multiply/divide both sides by -1
  
- 2) Solve the equation  $2x - 5 = 25$ .
  
  
  
  
  
  
  
  
  
- 3) Solve the equation  $2(x + 3) = 14$ .
  
  
  
  
  
  
  
  
  
- 4) What steps would you take to rewrite the equation  $y = 2x + 5 + 6$  in slope-intercept form? Select all that apply.
  - a) Distribute.
  - b) Eliminate a constant from the LHS
  - c) Eliminate a constant from the RHS
  - d) Eliminate  $x$  from the LHS
  - e) Eliminate  $x$  from the RHS
  - f) Eliminate  $y$  from the LHS
  - g) Eliminate  $y$  from the RHS
  - h) Combine like terms.
  - i) Divide both sides by the GCF of the coefficients
  - j) Multiply/divide both sides by -1
  
  
  
  
  
  
  
  
  
- 5) What steps would you take to rewrite the equation  $y - 5 = 3(x - 2)$  in slope-intercept form? Select all that apply.
  - a) Distribute.
  - b) Eliminate a constant from the LHS
  - c) Eliminate a constant from the RHS
  - d) Eliminate  $x$  from the LHS
  - e) Eliminate  $x$  from the RHS
  - f) Eliminate  $y$  from the LHS
  
  
  
  
  
  
  
  
  
- 6) What steps would you take to rewrite the equation  $2x - 5 = 3y - 2$  in standard form? Select all that apply.
  - a) Distribute.
  - b) Eliminate a constant from the LHS
  - c) Eliminate a constant from the RHS
  - d) Eliminate  $x$  from the LHS
  - e) Eliminate  $x$  from the RHS
  - f) Eliminate  $y$  from the LHS
  - g) Eliminate  $y$  from the RHS
  - h) Combine like terms.
  - i) Divide both sides by the GCF of the coefficients
  - j) Multiply/divide both sides by -1
  
  
  
  
  
  
  
  
  
- 7) What steps would you take to rewrite the equation  $2x - 6y = 2$  in standard form? Select all that apply.
  - a) Distribute.
  - b) Eliminate a constant from the LHS
  - c) Eliminate a constant from the RHS
  - d) Eliminate  $x$  from the LHS
  - e) Eliminate  $x$  from the RHS
  - f) Eliminate  $y$  from the LHS

- g) Eliminate  $y$  from the RHS
  - h) Combine like terms.
  - i) Divide both sides by the GCF of the coefficients
  - j) Multiply/divide both sides by -1
- 8) Rewrite the equation  $y - 1 = 3(x + 5)$  in slope-intercept form.
- 9) Rewrite the equation  $y - 1 = 3(x + 5)$  in standard form.
- 10) What steps would you take to rewrite the equation  $y + 2 + 3 = 2x$  in slope-intercept form? Select all that apply.
- a) Distribute.
  - b) Eliminate a constant from the LHS
  - c) Eliminate a constant from the RHS
  - d) Eliminate  $x$  from the LHS
  - e) Eliminate  $x$  from the RHS
  - f) Eliminate  $y$  from the LHS
  - g) Eliminate  $y$  from the RHS
  - h) Combine like terms.
  - i) Divide both sides by the GCF of the coefficients
  - j) Multiply/divide both sides by -1
- 11) What steps would you take to rewrite the equation  $y = 3(x - 2)$  in slope-intercept form? Select all that apply.
- a) Distribute.
  - b) Eliminate a constant from the LHS
  - c) Eliminate a constant from the RHS
- d) Eliminate  $x$  from the LHS
  - e) Eliminate  $x$  from the RHS
  - f) Eliminate  $y$  from the LHS
  - g) Eliminate  $y$  from the RHS
  - h) Combine like terms.
  - i) Divide both sides by the GCF of the coefficients
  - j) Multiply/divide both sides by -1
- 12) What steps would you take to rewrite the equation  $y - 5 = 3(x - 2)$  in standard form? Select all that apply.
- a) Distribute.
  - b) Eliminate a constant from the LHS
  - c) Eliminate a constant from the RHS
  - d) Eliminate  $x$  from the LHS
  - e) Eliminate  $x$  from the RHS
  - f) Eliminate  $y$  from the LHS
  - g) Eliminate  $y$  from the RHS
  - h) Combine like terms.
  - i) Divide both sides by the GCF of the coefficients
  - j) Multiply/divide both sides by -1
- 13) What steps would you take to rewrite the equation  $-2x + 5y = 2$  in standard form? Select all that apply.
- a) Distribute.
  - b) Eliminate a constant from the LHS
  - c) Eliminate a constant from the RHS
  - d) Eliminate  $x$  from the LHS
  - e) Eliminate  $x$  from the RHS
  - f) Eliminate  $y$  from the LHS
  - g) Eliminate  $y$  from the RHS
  - h) Combine like terms.
  - i) Divide both sides by the GCF of the coefficients
  - j) Multiply/divide both sides by -1

- 14) Rewrite the equation  $y - 6 = 2x - 1$  in slope-intercept form.
- 15) Rewrite the equation  $y - 4 = 2(x - 2)$  in slope-intercept form.
- 16) Rewrite the equation  $y + 4 = 2(x - 3)$  in standard form.