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 $x + 5 = 15$.

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 point-slope form? Select all that apply.

a) Distribute.
b) Eliminate a constant term from the LHS
c) Eliminate a constant term from the RHS
d) Eliminate a term containing x from the LHS
e) Eliminate a term containing x from the RHS
f) Eliminate a term containing y from the LHS
g) Eliminate a term containing 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 point-slope form? Select all that apply.

a) Distribute.
b) Eliminate a constant term from the LHS
c) Eliminate a constant term from the RHS
d) Eliminate a term containing x from the LHS
e) Eliminate a term containing x from the RHS
f) Eliminate a term containing y from the LHS
g) Eliminate a term containing 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

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 term from the LHS
c) Eliminate a constant term from the RHS
d) Eliminate a term containing x from the LHS
e) Eliminate a term containing x from the RHS
f) Eliminate a term containing y from the LHS
g) Eliminate a term containing 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 term from the LHS
c) Eliminate a constant term from the RHS
d) Eliminate a term containing x from the LHS
e) Eliminate a term containing x from the RHS
f) Eliminate a term containing y from the LHS

g) Eliminate a term containing 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 point-slope form? Select all that apply.

a) Distribute.
b) Eliminate a constant term from the LHS
c) Eliminate a constant term from the RHS
d) Eliminate a term containing x from the LHS
e) Eliminate a term containing x from the RHS
f) Eliminate a term containing y from the LHS
g) Eliminate a term containing 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 point-slope form? Select all that apply.

a) Distribute.
b) Eliminate a constant term from the LHS
c) Eliminate a constant term from the RHS
d) Eliminate a term containing x from the LHS
e) Eliminate a term containing x from the RHS
f) Eliminate a term containing y from the LHS
g) Eliminate a term containing 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 term from the LHS
c) Eliminate a constant term from the RHS
d) Eliminate a term containing x from the LHS
e) Eliminate a term containing x from the RHS
f) Eliminate a term containing y from the LHS
g) Eliminate a term containing 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 term from the LHS
c) Eliminate a constant term from the RHS
d) Eliminate a term containing x from the LHS
e) Eliminate a term containing x from the RHS
f) Eliminate a term containing y from the LHS
g) Eliminate a term containing 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.