

ALGEBRA 2

1) Collect like terms:

- a. $(3x - 2y) - (5x - 4y)$
- b. $13a - 2b + (a - b) - 5a$
- c. $2x - 5 - (4 + 3x) + 7x$
- d. $(a - b) - (-3a + 2b) + 4b$

2) Solve the following equations:

- a. $3x - 7 = 2$
- b. $2x - 1 = x + 3$
- c. $\frac{x}{3} + 1 = 5$
- d. $2(x + 5) = 14$
- e. $5x - 6 = 3x - 8$
- f. $x - \frac{2}{5} = \frac{1}{2}$
- g. $\frac{8+x}{5} = 7$

3) Work out these problems to find the unknown number:

- a. Seven times a number plus eight equals 29. What is the number?
- b. Three times a number minus eight is equal to 16. What is the number?
- c. A number minus five, all multiplied by two is equal to 30. What is the number?
- d. If I divide a number by four, and then I subtract three, the result is two. What is the number?