

LEVEL H

H 1-20 : Review up to G

The review includes the four operations of positive and negative numbers/ fractions, simplifying algebraic expressions, solving linear equations.

H 21-40 : Literal Equations

Literal equations are very similar to linear equations, except that numbers are replaced by letters. Note that all algebraic rules are preserved.

Solve the following equations for x .

$$a = b - x$$

$$x = -a + b$$

$$a = x - 3$$

$$a + 3 = x$$

$$x = a + 3$$

$$ax - c = b$$

$$ax = b + c$$

$$x = \frac{b+c}{a}$$

Reduce the answers when necessary.

$$(a+b)x = b+a$$

$$\begin{aligned} x &= \frac{b+a}{a+b} \\ &= \frac{a+b}{a+b} \\ &= 1 \end{aligned}$$

$$(a-b)x = -a+b$$

$$\begin{aligned} x &= \frac{-a+b}{a-b} \\ &= \frac{-(a-b)}{(a-b)} \\ &= -1 \end{aligned}$$

Collect all terms with x on the LHS, "take out" x

$$ax = b + cx$$

$$ax - cx = b$$

$$(a-c)x = b$$

$$x = \frac{b}{a-c}$$

$$-ax = b + x$$

$$-ax - x = b$$

$$(-a-1)x = b$$

$$x = \frac{b}{-a-1} \left[-\frac{b}{a+1} \right]$$

When there are fractions, multiply both sides of the equation by the LCM of the denominator(s).

$$\frac{x}{a} - \frac{x}{b} = c$$

$$\begin{aligned} \left(\frac{x}{a} - \frac{x}{b} \right) \times ab &= c \times ab \\ bx - ax &= abc \\ (b-a)x &= abc \\ x &= \frac{abc}{-a+b} \end{aligned}$$

$$\frac{x}{a} = b + 3x$$

$$\begin{aligned} \frac{x}{a} \times a &= (b+3x) \times a \\ x &= ab + 3ax \\ x - 3ax &= ab \\ (1-3a)x &= ab \\ x &= \frac{ab}{-3a+1} \end{aligned}$$

Note: Have your instructor carefully guide you through the word problems on H36-40.

H 41-90 : Simultaneous Equations in 2 Variables

Elimination Method

- 1) Decide which variable (x or y) to eliminate first.
- 2) Multiply the equations so that the variable has the same coefficient in both equations.
- 3) Add/ subtract both equations to completely remove the chosen variable.
- 4) Solve for the remaining variable, and subsequently the variable that was eliminated.

$$\begin{cases} x - 2 = 3(y + 2) & \dots \textcircled{1} \\ 2y + 5 = x - 2(y - 1) & \dots \textcircled{2} \end{cases}$$

$$\textcircled{1} \text{ becomes } x - 3y = 8 \quad \dots \textcircled{1'}$$

$$\textcircled{2} \text{ becomes } -x + 4y = -3 \quad \dots \textcircled{2'}$$

$$\textcircled{1'} + \textcircled{2'} : y = 5$$

Substituting $y = 5$ into equation $\textcircled{1'}$,

$$x = 8 + 3(5) = 23$$

$$\begin{cases} \frac{x-3}{5} = \frac{y-7}{2} & \dots \textcircled{1} \\ 7x = 3y & \dots \textcircled{2} \end{cases}$$

$$\textcircled{1} \times 10 : 2x - 6 = 5y - 35$$

$$2x - 5y = -29 \quad \dots \textcircled{1'}$$

$$\textcircled{2} \text{ becomes } 7x - 3y = 0 \quad \dots \textcircled{2'}$$

$$\textcircled{1'} \times 3 : 6x - 15y = -87 \quad \dots \textcircled{3}$$

$$\textcircled{2'} \times 5 : 35x - 15y = 0 \quad \dots \textcircled{4}$$

$$\textcircled{4} - \textcircled{3} : 29x = 87$$

$$x = 3$$

Substituting $x = 3$ into equation $\textcircled{2}$,

$$3y = 7(3)$$

$$y = 7$$

Substitution Method

Express one variable (explicitly) in terms of another. Substitute into the other equation and solve.

$$\begin{cases} y = -2x + 3 & \dots \textcircled{1} \\ 2x - 3y = 7 & \dots \textcircled{2} \end{cases}$$

Substituting $\textcircled{1}$ into $\textcircled{2}$,

$$2x - 3(-2x + 3) = 7$$

$$2x + 6x - 9 = 7$$

$$8x = 16$$

$$x = 2$$

Substituting $x = 2$ into equation $\textcircled{1}$,

$$y = -2(2) + 3$$

$$= -1$$

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**Richard J. Sherman, Steck-Vaughn
Staff, James Swalm, June Coultas**

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where α is the resulting vector angle y is the resulting vector vertical offset c is the sum of the two force vectors a is the first force vector b is the second force vector