Writing a given statement in algebraic form

Ex: → is added to 7 is equal to 23
or
x increased by 7 is equal to 23

Sol :- $x + 7 = 23$ ✓ Ans ✓

Q. P subtracted from 7 is greater than x

Sol :- $7 - P > x$ Ans ✓ | $7 - P$

Exercise 18(A)

1) Express each of the following statements in algebraic form:

i) The sum of 8 and x is equal to y.
$8 + x = y$

ii) x decreased by 5 is equal to y.
$x - 5 = y$

iii) The sum of 2 and x is greater than y.
$2 + x > y$

iv) The sum of x and y is less than 24
$x + y < 24$

vi) 15 multiplied by m gives $3n$.

$15m = 3n$

vii) Product of 8 and y is equal to $3x$.

$8y = 3x$

viii) 30 divided by b is equal to p.

$30/b = p$

viiij) z decreased by $3x$ is equal to y.

$z - 3x = y$

ix) 12 times of x is equal to $5z$.

viii) z decreased by 3x is equal to y.

$z - 3x = y$

ix) 12 times of x is equal to 5z.

$12x = 5z$

x) 12 times of x is greater than 5z.

$12x > 5z$

xi) 12 times of x is less than 5z.

$12x < 5z$

xii) 3z subtracted from 45 is equal to y.

$45 - 3z = y$

xiii) 8x divided by y is equal to 2z.

$8x/y = 2z$

xiv) 7y subtracted from 5x gives 8z.

$5x - 7y = 8z$

xv) 7y decreased by 5x gives 85.

$7y - 5x = 8z$

2) For each of the following algebraic expressions, write a suitable statement in words:

i) $3x + 8 = 15$

The sum of 3x and 8 is equal to 15.

ii) $7 - y > x$

y subtracted from 7 is greater than x.

vii) $7y - 5x = 8z$

2. For each of the following algebraic expressions, write a suitable statement in words:

i) $3x + 8 = 15$

The sum of $3x$ and 8 is equal to 15.

ii) $7 - y > x$

y subtracted from 7 is greater than x.

iii) $2y - x < 12$

x subtracted from 2y is smaller than 12.

iv) $5 \div z = 5$

5 divided by z is equal to 5.

v) $a + 2b > 18$

The sum of a and 2b is greater than 18.

vi) $2x - 3y = 16$

3y subtracted from 2x is equal to 16.

vii) $3a - 4b > 14$

4b subtracted from 3a is greater than 14.

viii) $b + 7a < 21$

The sum of b and 7a is greater than 21.

ix) $(16 + 2a) - x > 25$

(The sum of

3y subtracted from 2x is equal to 16.

vii) $3a - 4b > 14$

4b subtracted from 3a is greater than 14.

viii) $b + 7a < 21$

The sum of b and 7a is greater than 21.

ix) $(16 + 2a) - x > 25$

(The sum of 16 and 2a) subtracted from x is greater than 25.

x) $(3x + 12) - y < 3a$

(The sum of 3x and 12) subtracted from y is smaller than 3a.