

# EQUATIONS: Brackets

 **8031** Watch video and complete examples

Lesson Notes and Examples:

**Example 1**

$$2(x - 1) + 3 = 7$$

**Example 2**

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

**Example 3**

$$5(x + 2) + 3(x - 5) = 19$$

**Example 4**

$$2x - 3(2 + 4x) = 2 - (x + 2)$$

Solve:

1)  $3(x + 1) - 5 = 7$

2)  $2x + 5 - (3x + 2) = 4x$

3)  $7(x - 3) = 7 - 2(3x + 1)$

4)  $3 - 2(4 - x) = 5(x + 1) + 2$

 Mark work and do corrections. [1-4]

5)  $4 - (x - 1) = 2(5 + 2x)$

6)  $2x - (x - 3) = 5 - 3x$

7)  $-(2x - 4) = -2(4 - 5x)$

8)  $3x - (2 - x) = -2(2 - 3x)$

 Mark work and do corrections. [5-8]

9)  $10 - 4(2x - 1) = -2(3 - x)$

10)  $6(1 + x) + x = -14$

11)  $4(3x - 1) = 11x - 3(x - 4)$

12)  $1 - x = 6(x + 10) - 3(3x + 1)$

 Mark work and do corrections. [9-12]

13)  $3(x - 1) - 2(x + 2) = 2x - 3$

14)  $2(x + 2) - 3(x - 4) = 8$

15)  $2(x + 3) - 3(x + 1) = 2x + 3$

16)  $4(x + 1) - (x - 2) = 3(x - 6) - 2(3x + 9)$


 Mark work and do corrections. [13-16]

17)  $x + 2(x + 4) = -4$

18)  $5(2x + 1) - 2(x - 4) = -3$

19)  $2(x + 1) - 3x = 3(x - 1) - 2(x - 3)$

20)  $2x + 2(2x - 3) = 12x - 9(1 + 2x)$

 Mark work and do corrections. [17-20]