7. 6 Postulates and Proofs in Algebra Postulate - rule that is accepted as true

7 postulates 1. Addition Postulate IF a = b then a+c=b+c 1. Subtraction Postulark If e=b then a-c=b-c 3. Multiplication Postulate J. Murreprication Jostularo IF a=b ELen ac=bc 4 Division Postulate IF a=b, c≠0, then Z=b

y -3 = 5 y = 8	Just Aircation Given Add. Pos (3)
Y + 9 = 14 Y = 5	Given Sub Pos (9) .
$\frac{x}{5} = 15$ x = 75 x = 9	Given multi. Pos (5) over Div. Pos (3)

$$2(x+3) - 4 = 6x - 12$$

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$$2(x+3) - 4 = 6x - 12$$

$$2x + 6 - 4 = 6x - 12$$

$$2x + 2 = 6x - 12$$

$$2x + 2 = 6x - 12$$

$$3 - 12$$

$$2 = 4x - 12$$

$$14 = 4x$$

$$3 - 5 = x$$

$$2 = 4x - 12$$

$$3 - 5 = x$$

$$3 - 5 = x$$