UNIT #6 Linear Equations and Inequalities

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6.1 SOLVING EQUATION BY USING INVERSE OPERATIONS

1 step equations Inverse operations 'undo'' eachothers results ex addition and subtraction are inverse operations WRIT/NG (a) a number plus 5 is 20 x represents the number +5 = 20 X + 5 = 20 1 DO THE OPP -5 - 5 0PERATION 1 DO THE OPPOSITE 2 WHATEVER YOU DO x = 15 TO I SIDE OF THE EQUAL SIGN, YOU MUST DO TO THE OTHER SIDE !!! (b) four times a number is -32 $4x \neq -32$ x = -8

6.1 Solving Equation by Usining Inverse Operations Page 1

2 step equations Solve then verify each equation (a) 3x + 4 = -5verify substitute -3 for X in the equation ' $y \frac{3}{8} = -9$ 3x + 4 = -5 3(-3) + 4 = -5 -9 + 4 = -5 -5 = -5 $\times = -3$ (b) 2(-2+w) = 18 $-\frac{4}{7} + \frac{2}{7} = \frac{18}{18}$ $+\frac{14}{7} = \frac{18}{7}$ M = 11 $(a) \stackrel{r}{+} + 3 = 72$ $\frac{1}{\sqrt{2}} = \frac{42}{\sqrt{2}} \times \frac{4}{\sqrt{2}}$ Y = 168Pg 272 # 8-16, 18, 20, 24