Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table# \_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**5.0 Homework** – Solving Multi-Step Equations with One, None, and Infinitely Many Solutions

**DIRECTIONS: Solve the equations. Check your answers. Make sure you show your work.**

|  |  |
| --- | --- |
| 1. 8x – 2 = -9 + 7x | 1. 4m – 4 = 4m |
| 1. 5p – 14 = 8p + 4 | 1. p – 4 = -9 + p |
| 1. -8 = -(x + 4) | 1. 12 = -4(-6x – 3) |
| 1. -18 – 6k = 6(1 + 3k) | 1. 2(4x – 3) – 8 = 4 + 2x |

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| --- | --- |
| 1. 3n – 5 = -8(6 + 5n) | 1. -3(4x + 3) + 4(6x + 1) = 43 |
| 1. 24a – 22 = -2(11 – 12a) | 1. 6(7x + 7) = 7(6x + 6) |

Solutions: 1) -7 2) no solution 3) -6 4) no solution 5) 4 6) 0 7) -1 8) 3 9) -1 10) 4 11) IMS 12) IMS