**Algebra I Worksheet #1 Unit 4 page 1** _____

Complete the table for each input-output chart shown to solve for x.

| | 1. | 2. | 3. | 4. |
|---|---|---|---|---|
| **Input** | **x + 4 = 7** | **x + 4 = k** | **x + n = k** | **x + a = b** |
| ↓ **Operation** | **subtract 4 from both sides** | **subtract 4 from both sides** | **subtract n from both sides** | |
| ↓ **Output** | | | | |

| | 5. | 6. | 7. | 8. |
|---|---|---|---|---|
| **Input** | **x – 5 = 3** | **x – 5 = p** | **x – h = p** | **x – c = k** |
| ↓ **Operation** | **add 5 to both sides** | **add 5 to both sides** | **add h to both sides** | |
| ↓ **Output** | | | | |

| | 9. | 10. | 11. | 12. |
|---|---|---|---|---|
| **Input** | **6x = 24** | **6x = f** | **ax = f** | **bx = c** |
| ↓ **Operation** | **divide both sides by 6** | **divide both sides by 6** | **divide both sides by a** | |
| ↓ **Output** | | | | |

| | 13. | 14. | 15. | 16. |
|---|---|---|---|---|
| **Input** | $\frac{x}{3} = 4$ | $\frac{x}{3} = p$ | $\frac{x}{k} = p$ | $\frac{x}{n} = d$ |
| ↓ **Operation** | **multiply both sides by 3** | **multiply both sides by 3** | **multiply both sides by k** | |
| ↓ **Output** | | | | |

# Algebra I Worksheet #1 Unit 4 page 2

Complete the table for each input-output chart shown to solve for x.

| | 17. | 18. | 19. | 20. |
|---|---|---|---|---|
| **Input** | $x + 5 = 8$ | $x - 7 = 2$ | $3x = 27$ | $\frac{x}{6} = 5$ |
| ↓ **Operation** | | | | |
| ↓ **Output** | | | | |

| | 21. | 22. | 23. | 24. |
|---|---|---|---|---|
| **Input** | $x + g = p$ | $x - k = b$ | $ax = m$ | $\frac{x}{d} = c$ |
| ↓ **Operation** | | | | |
| ↓ **Output** | | | | |

Solve for x.

**25.** $x + 6 = 10$

**26.** $x + 6 = b$

**27.** $x + a = b$

**28.** $x - 3 = 5$

**29.** $x - 3 = h$

**30.** $x - t = h$

**31.** $4x = 28$

**32.** $4x = p$

**33.** $cx = p$

**34.** $\frac{x}{4} = 12$

**35.** $\frac{x}{4} = k$

**36.** $\frac{x}{n} = k$