

Discrete Math Worksheet

Solve the following problems:

1. $FFBA9_{16} + 1100101_2 = \underline{\hspace{2cm}}_8$

2. $31277_8 + 1100101_2 = \underline{\hspace{2cm}}_{16}$

3. $EFBA9_{16} + 55673_8 = \underline{\hspace{2cm}}_{10}$

4. $FFAA9_{16} + 1100_{10} = \underline{\hspace{2cm}}_8$

5. $37764_8 + 3FFDA_{16} = \underline{\hspace{2cm}}_2$

6. $998_{10} + 11101_2 = \underline{\hspace{2cm}}_8$

7. $123AC_{16} + 1101_2 = \underline{\hspace{2cm}}_{16}$

8. $FCBA9_{16} + 132567_8 = \underline{\hspace{2cm}}_2$

9. $3376_8 + 4571_8 = \underline{\hspace{2cm}}_8$

10. $FFBA9_{16} + 987AD_{16} = \underline{\hspace{2cm}}_8$

11. $1101110_2 + 1100101_2 = \underline{\hspace{2cm}}_8$

12. $365_{10} + 11001_2 = \underline{\hspace{2cm}}_8$

13. $FCBE9_{16} + 777771_8 = \underline{\hspace{2cm}}_{10}$

14. $1459_{16} + 1101_2 = \underline{\hspace{2cm}}_{10}$

15. $AC49_{16} + AFDB1_{16} = \underline{\hspace{2cm}}_{16}$

16. $10110_2 + 1100101_2 = \underline{\hspace{2cm}}_8$

$$17. ABBA9_{16} - 10101_2 = \underline{\hspace{2cm}}_8$$

$$18. 3476_8 - ABB45_{16} = \underline{\hspace{2cm}}_2$$

$$19. 11100111_2 - 1100101_2 = \underline{\hspace{2cm}}_{16}$$

$$20. 459_{10} - 459_8 = \underline{\hspace{2cm}}_{16}$$

$$21. 6998_{16} - 4567_8 = \underline{\hspace{2cm}}_{10}$$

$$22. 1110010_2 - 12_8 = \underline{\hspace{2cm}}_{10}$$

Solve for the variable X in the indicated base:

$$23. FFBA9_{16} + X_2 = 651_8$$

$$24. FFBA9_{16} + X_{10} = 1100101_2$$

$$25. F3E9_{16} + 11001_2 = X_8$$

$$26. X_{16} + 1100101_2 = 11100101_2$$

$$27. X_2 + 4657_8 = X_{10}$$

$$28. X_2 - D871_{16} = X_8$$

$$29. 187_{10} + X_2 = 7432_8$$

$$30. 1432_{16} + 1791_{10} = X_8$$

$$31. 473_8 - B_{16} = X_{10}$$

$$32. X_{16} + 1001_2 = 11011_2$$

$$33. 4377_8 + 72_{10} = X_{16}$$

$$34. FFBA9_{16} - X_{10} = 365223_8$$