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1. BED converts to $1011\ 1110\ 1101_2$. Regrouping to sets of 3 digits gives $101\ 111\ 101\ 101_2$. This converts to 5755_8

1. 5755_8 or 5755

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2. The base 8 addition gives 103327_8. Converting to base 2 gives $001\ 000\ 011\ 011\ 010\ 111_2$. Regrouping using sets of 4 digits gives $1000\ 0110\ 1101\ 0111_2$. This converts to $86D7_{16}$.

2. $86D7_{16}$ or 86D7

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3. (ADD (SUB 4 5) (ADD 6 3) (MULT 4 8)) simplifies to $(ADD -1\ 9\ 32) = 40$

3. 40

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4. $f\,(7) = f\,(5) + 2 = 7 + 2 = 9$
$f\,(5) = f\,(3) + 2 = 5 + 2 = 7$
$f\,(3) = f\,(1) + 2 = 3 + 2 = 5$
$f\,(1) = 1 + 2 = 3$

4. 9

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5. $f\,(7,4) = 4 - f\,(2,6) = 4 - 7 = -3$
$f\,(2,6) = 2 - f\,(0,5) = 2 - (-5) = 7$
$f\,(0,5) = 0 - 5 = -5$

5. -3