

$$\text{expand } (6(I-Z_1) - 8(Z_2-I) + 2(Z_3-I) - 4(Z_4-I) - 4(Z_5-I) + 2)^2 + (-4(I-Z_1) - 3(Z_2-I) + 11(Z_3-I) - 5(Z_4-I) - 3(Z_5-I) + 4)^2 +$$

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Solution

$$589I^2 + 16I - 132IZ_1 - 164IZ_2 - 92IZ_3 - 308IZ_4 - 482IZ_5 + 117Z_1^2 + 54Z_1Z_2 + 142Z_2^2 + 100Z_2 + 78Z_2Z_4 + 179Z_3^2 + 102Z_3 + 205Z_4^2 + 200Z_4 + 18Z_4Z_5 + 340Z_5^2 + 229 - 14Z_1Z_3 - 72Z_1Z_4 - 70Z_1Z_5 - 116Z_1 - 116Z_2Z_3 - 136Z_2Z_5 - 126Z_3Z_4 - 10Z_3Z_5 - 302Z_5$$

### Solution steps

$$(6(I-Z_1) - 8(Z_2-I) + 2(Z_3-I) - 4(Z_4-I) - 4(Z_5-I) + 2)^2 + (-4(I-Z_1) - 3(Z_2-I) + 11(Z_3-I) - 5(Z_4-I) - 3(Z_5-I) + 4)^2 + \\ (6(I-Z_1) + 6(Z_2-I) + 3(Z_3-I) - 0 \cdot (Z_4-I) - 3(Z_5-I) + 9)^2 + (4(I-Z_1) - 2(Z_2-I) + 0 \cdot (Z_3-I) + 12(Z_4-I) + 4(Z_5-I) + 8)^2 + \\ (-2(I-Z_1) + 2(Z_2-I) - 6(Z_3-I) - 2(Z_4-I) + (Z_5-I) + 0)^2 + (-3(I-Z_1) + 5(Z_2-I) - 3(Z_3-I) + 4(Z_4-I) - 17(Z_5-I) + 8)^2$$

Remove parentheses:  $(a) = a$

$$= (6(I-Z_1) - 8(Z_2-I) + 2(Z_3-I) - 4(Z_4-I) - 4(Z_5-I) + 2)^2 + (-4(I-Z_1) - 3(Z_2-I) + 11(Z_3-I) - 5(Z_4-I) - 3(Z_5-I) + 4)^2 + \\ (6(I-Z_1) + 6(Z_2-I) + 3(Z_3-I) - 0 \cdot (Z_4-I) - 3(Z_5-I) + 9)^2 + (4(I-Z_1) - 2(Z_2-I) + 0 \cdot (Z_3-I) + 12(Z_4-I) + 4(Z_5-I) + 8)^2 + \\ (-2(I-Z_1) + 2(Z_2-I) - 6(Z_3-I) - 2(Z_4-I) + (Z_5-I) + 0)^2 + (-3(I-Z_1) + 5(Z_2-I) - 3(Z_3-I) + 4(Z_4-I) - 17(Z_5-I) + 8)^2$$

$$(6(I-Z_1) - 8(Z_2-I) + 2(Z_3-I) - 4(Z_4-I) - 4(Z_5-I) + 2)^2 = (20I - 6Z_1 - 8Z_2 + 2Z_3 - 4Z_4 - 4Z_5 + 2)^2$$



$$(-4(I-Z_1) - 3(Z_2-I) + 11(Z_3-I) - 5(Z_4-I) - 3(Z_5-I) + 4)^2 = (-4I + 4Z_1 - 3Z_2 + 11Z_3 - 5Z_4 - 3Z_5 + 4)^2$$



$$(6(I-Z_1) + 6(Z_2-I) + 3(Z_3-I) - 0 \cdot (Z_4-I) - 3(Z_5-I) + 9)^2 = (6Z_2 + 3Z_3 + 9 - 6Z_1 - 3Z_5)^2$$



$$(4(I-Z_1) - 2(Z_2-I) + 0 \cdot (Z_3-I) + 12(Z_4-I) + 4(Z_5-I) + 8)^2 = (12Z_4 + 4Z_5 + 8 - 10I - 4Z_1 - 2Z_2)^2$$



$$(-2(I-Z_1) + 2(Z_2-I) - 6(Z_3-I) - 2(Z_4-I) + (Z_5-I) + 0)^2 = (3I + 2Z_1 + 2Z_2 - 6Z_3 - 2Z_4 + Z_5)^2$$



$$(-3(I-Z_1) + 5(Z_2-I) - 3(Z_3-I) + 4(Z_4-I) - 17(Z_5-I) + 8)^2 = (8I + 3Z_1 + 5Z_2 - 3Z_3 + 4Z_4 - 17Z_5 + 8)^2$$



$$= (20I + 2Z_3 + 2 - 6Z_1 - 8Z_2 - 4Z_4 - 4Z_5)^2 + (4Z_1 + 11Z_3 + 4 - 4I - 3Z_2 - 5Z_4 - 3Z_5)^2 + (6Z_2 + 3Z_3 + 9 - 6Z_1 - 3Z_5)^2 + \\ (12Z_4 + 4Z_5 + 8 - 10I - 4Z_1 - 2Z_2)^2 + (3I + 2Z_1 + 2Z_2 + Z_5 - 6Z_3 - 2Z_4)^2 + (8I + 3Z_1 + 5Z_2 + 4Z_4 + 8 - 3Z_3 - 17Z_5)^2$$

$$(20I - 6Z_1 - 8Z_2 + 2Z_3 - 4Z_4 - 4Z_5 + 2)^2 = (20I - 6Z_1 - 8Z_2 + 2Z_3 - 4Z_4 - 4Z_5 + 2)(20I - 6Z_1 - 8Z_2 + 2Z_3 - 4Z_4 - 4Z_5 + 2)$$

$$= (20I + 2Z_3 + 2 - 6Z_1 - 8Z_2 - 4Z_4 - 4Z_5)(20I + 2Z_3 + 2 - 6Z_1 - 8Z_2 - 4Z_4 - 4Z_5) + (4Z_1 + 11Z_3 + 4 - 4I - 3Z_2 - 5Z_4 - 3Z_5)^2 + \\ (6Z_2 + 3Z_3 + 9 - 6Z_1 - 3Z_5)^2 + (12Z_4 + 4Z_5 + 8 - 10I - 4Z_1 - 2Z_2)^2 + (3I + 2Z_1 + 2Z_2 + Z_5 - 6Z_3 - 2Z_4)^2 + (8I + 3Z_1 + 5Z_2 + 4Z_4 + 8 - 3Z_3 - 17Z_5)^2$$

$$(-4I + 4Z_1 - 3Z_2 + 11Z_3 - 5Z_4 - 3Z_5 + 4)^2 = (-4I + 4Z_1 - 3Z_2 + 11Z_3 - 5Z_4 - 3Z_5 + 4)(-4I + 4Z_1 - 3Z_2 + 11Z_3 - 5Z_4 - 3Z_5 + 4)$$

$$= (20I + 2Z_3 + 2 - 6Z_1 - 8Z_2 - 4Z_4 - 4Z_5)(20I + 2Z_3 + 2 - 6Z_1 - 8Z_2 - 4Z_4 - 4Z_5) + (4Z_1 + 11Z_3 + 4 - 4I - 3Z_2 - 5Z_4 - 3Z_5)^2 + \\ (6Z_2 + 3Z_3 + 9 - 6Z_1 - 3Z_5)^2 + (12Z_4 + 4Z_5 + 8 - 10I - 4Z_1 - 2Z_2)^2 + (3I + 2Z_1 + 2Z_2 + Z_5 - 6Z_3 - 2Z_4)^2 + (8I + 3Z_1 + 5Z_2 + 4Z_4 + 8 - 3Z_3 - 17Z_5)^2$$

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$$(6Z_2 + 3Z_3 + 9 - 6Z_1 - 3Z_5)^2 = (6Z_2 + 3Z_3 + 9 - 6Z_1 - 3Z_5)(6Z_2 + 3Z_3 + 9 - 6Z_1 - 3Z_5) \\ = (20I + 2Z_3 + 2 - 6Z_1 - 8Z_2 - 4Z_4 - 4Z_5)(20I + 2Z_3 + 2 - 6Z_1 - 8Z_2 - 4Z_4 - 4Z_5) + (4Z_1 + 11Z_3 + 4 - 4I - 3Z_2 - 5Z_4 - 3Z_5) \\ (4Z_1 + 11Z_3 + 4 - 4I - 3Z_2 - 5Z_4 - 3Z_5) + (6Z_2 + 3Z_3 + 9 - 6Z_1 - 3Z_5)(6Z_2 + 3Z_3 + 9 - 6Z_1 - 3Z_5) + (12Z_4 + 4Z_5 + 8 - 10I - 4Z_1 - 2Z_2)^2 + \\ (3I + 2Z_1 + 2Z_2 + Z_5 - 6Z_3 - 2Z_4)^2 + (8I + 3Z_1 + 5Z_2 + 4Z_4 + 8 - 3Z_3 - 17Z_5)^2$$

$$(12Z_4 + 4Z_5 + 8 - 10I - 4Z_1 - 2Z_2)^2 = (12Z_4 + 4Z_5 + 8 - 10I - 4Z_1 - 2Z_2)(12Z_4 + 4Z_5 + 8 - 10I - 4Z_1 - 2Z_2) \\ = (20I + 2Z_3 + 2 - 6Z_1 - 8Z_2 - 4Z_4 - 4Z_5)(20I + 2Z_3 + 2 - 6Z_1 - 8Z_2 - 4Z_4 - 4Z_5) + (4Z_1 + 11Z_3 + 4 - 4I - 3Z_2 - 5Z_4 - 3Z_5) \\ (4Z_1 + 11Z_3 + 4 - 4I - 3Z_2 - 5Z_4 - 3Z_5) + (6Z_2 + 3Z_3 + 9 - 6Z_1 - 3Z_5)(6Z_2 + 3Z_3 + 9 - 6Z_1 - 3Z_5) + (12Z_4 + 4Z_5 + 8 - 10I - 4Z_1 - 2Z_2) \\ (12Z_4 + 4Z_5 + 8 - 10I - 4Z_1 - 2Z_2) + (3I + 2Z_1 + 2Z_2 + Z_5 - 6Z_3 - 2Z_4)^2 + (8I + 3Z_1 + 5Z_2 + 4Z_4 + 8 - 3Z_3 - 17Z_5)^2$$

$$(3I + 2Z_1 + 2Z_2 - 6Z_3 - 2Z_4 + Z_5)^2 = (3I + 2Z_1 + 2Z_2 - 6Z_3 - 2Z_4 + Z_5)(3I + 2Z_1 + 2Z_2 - 6Z_3 - 2Z_4 + Z_5) \\ = (20I + 2Z_3 + 2 - 6Z_1 - 8Z_2 - 4Z_4 - 4Z_5)(20I + 2Z_3 + 2 - 6Z_1 - 8Z_2 - 4Z_4 - 4Z_5) + (4Z_1 + 11Z_3 + 4 - 4I - 3Z_2 - 5Z_4 - 3Z_5) \\ (4Z_1 + 11Z_3 + 4 - 4I - 3Z_2 - 5Z_4 - 3Z_5) + (6Z_2 + 3Z_3 + 9 - 6Z_1 - 3Z_5)(6Z_2 + 3Z_3 + 9 - 6Z_1 - 3Z_5) + (12Z_4 + 4Z_5 + 8 - 10I - 4Z_1 - 2Z_2) \\ (12Z_4 + 4Z_5 + 8 - 10I - 4Z_1 - 2Z_2) + (3I + 2Z_1 + 2Z_2 + Z_5 - 6Z_3 - 2Z_4)(3I + 2Z_1 + 2Z_2 + Z_5 - 6Z_3 - 2Z_4) + (8I + 3Z_1 + 5Z_2 + 4Z_4 + 8 - 3Z_3 - 17Z_5)$$

$$(8I + 3Z_1 + 5Z_2 - 3Z_3 + 4Z_4 - 17Z_5 + 8)^2 = (8I + 3Z_1 + 5Z_2 - 3Z_3 + 4Z_4 - 17Z_5 + 8)(8I + 3Z_1 + 5Z_2 - 3Z_3 + 4Z_4 - 17Z_5 + 8) \\ = (20I + 2Z_3 + 2 - 6Z_1 - 8Z_2 - 4Z_4 - 4Z_5)(20I + 2Z_3 + 2 - 6Z_1 - 8Z_2 - 4Z_4 - 4Z_5) + (4Z_1 + 11Z_3 + 4 - 4I - 3Z_2 - 5Z_4 - 3Z_5) \\ (4Z_1 + 11Z_3 + 4 - 4I - 3Z_2 - 5Z_4 - 3Z_5) + (6Z_2 + 3Z_3 + 9 - 6Z_1 - 3Z_5)(6Z_2 + 3Z_3 + 9 - 6Z_1 - 3Z_5) + (12Z_4 + 4Z_5 + 8 - 10I - 4Z_1 - 2Z_2) \\ (12Z_4 + 4Z_5 + 8 - 10I - 4Z_1 - 2Z_2) + (3I + 2Z_1 + 2Z_2 + Z_5 - 6Z_3 - 2Z_4)(3I + 2Z_1 + 2Z_2 + Z_5 - 6Z_3 - 2Z_4) + (8I + 3Z_1 + 5Z_2 + 4Z_4 + 8 - 3Z_3 - 17Z_5) \\ (8I + 3Z_1 + 5Z_2 + 4Z_4 + 8 - 3Z_3 - 17Z_5)$$

Expand  $(20I - 6Z_1 - 8Z_2 + 2Z_3 - 4Z_4 - 4Z_5 + 2)(20I - 6Z_1 - 8Z_2 + 2Z_3 - 4Z_4 - 4Z_5 + 2)$ :  $-240IZ_1 - 320IZ_2 + 80IZ_3 - 160IZ_4 - 160IZ_5 + 400I^2 + 80I + 36Z_1^2 - 24Z_1 + 96Z_1Z_2 + 64Z_2^2 - 32Z_2 - 24Z_1Z_3 - 32Z_2Z_3 + 4Z_3^2 + 8Z_3 + 48Z_1Z_4 + 64Z_2Z_4 - 16Z_3Z_4 + 16Z_4^2 - 16Z_4 + 48Z_1Z_5 + 64Z_2Z_5 - 16Z_3Z_5 + 32Z_4Z_5 + 16Z_5^2 - 16Z_5 + 4 + (-4I + 4Z_1 - 3Z_2 + 11Z_3 - 5Z_4 - 3Z_5 + 4)$

$$(-4I + 4Z_1 - 3Z_2 + 11Z_3 - 5Z_4 - 3Z_5 + 4) + (6Z_2 + 3Z_3 + 9 - 6Z_1 - 3Z_5)(6Z_2 + 3Z_3 + 9 - 6Z_1 - 3Z_5) + (12Z_4 + 4Z_5 + 8 - 10I - 4Z_1 - 2Z_2) \\ (12Z_4 + 4Z_5 + 8 - 10I - 4Z_1 - 2Z_2) + (3I + 2Z_1 + 2Z_2 - 6Z_3 - 2Z_4 + Z_5)(3I + 2Z_1 + 2Z_2 - 6Z_3 - 2Z_4 + Z_5) + (8I + 3Z_1 + 5Z_2 - 3Z_3 + 4Z_4 - 17Z_5 + 8) \\ (8I + 3Z_1 + 5Z_2 - 3Z_3 + 4Z_4 - 17Z_5 + 8)$$

Expand  $(-4I + 4Z_1 - 3Z_2 + 11Z_3 - 5Z_4 - 3Z_5 + 4)(-4I + 4Z_1 - 3Z_2 + 11Z_3 - 5Z_4 - 3Z_5 + 4)$ :  $-32IZ_1 + 24IZ_2 - 88IZ_3 + 40IZ_4 + 24IZ_5 + 16I^2 - 32I + 16Z_1^2 + 32Z_1 - 24Z_1Z_2 + 9Z_2^2 - 24Z_2 + 88Z_1Z_3 - 66Z_2Z_3 + 121Z_3^2 + 88Z_3 - 40Z_1Z_4 + 30Z_2Z_4 - 110Z_3Z_4 + 25Z_4^2 - 40Z_4 - 24Z_1Z_5 + 18Z_2Z_5 - 66Z_3Z_5 + 30Z_4Z_5 + 9Z_5^2 - 24Z_5 + 16 + (6Z_2 + 3Z_3 + 9 - 6Z_1 - 3Z_5)(6Z_2 + 3Z_3 + 9 - 6Z_1 - 3Z_5) + (12Z_4 + 4Z_5 + 8 - 10I - 4Z_1 - 2Z_2) \\ (12Z_4 + 4Z_5 + 8 - 10I - 4Z_1 - 2Z_2) + (3I + 2Z_1 + 2Z_2 - 6Z_3 - 2Z_4 + Z_5)(3I + 2Z_1 + 2Z_2 - 6Z_3 - 2Z_4 + Z_5) + (8I + 3Z_1 + 5Z_2 - 3Z_3 + 4Z_4 - 17Z_5 + 8) \\ (8I + 3Z_1 + 5Z_2 - 3Z_3 + 4Z_4 - 17Z_5 + 8)$

$$= -240IZ_1 - 320IZ_2 + 80IZ_3 - 160IZ_4 - 160IZ_5 + 400I^2 + 80I + 36Z_1^2 - 24Z_1 + 96Z_1Z_2 + 64Z_2^2 - 32Z_2 - 24Z_1Z_3 - 32Z_2Z_3 + 4Z_3^2 + 8Z_3 + 48Z_1Z_4 + 64Z_2Z_4 - 16Z_3Z_4 + 16Z_4^2 - 16Z_4 + 48Z_1Z_5 + 64Z_2Z_5 - 16Z_3Z_5 + 32Z_4Z_5 + 16Z_5^2 - 16Z_5 + 4 - 32IZ_1 + 24IZ_2 - 88IZ_3 + 40IZ_4 + 24IZ_5 + 16I^2 - 32I + 16Z_1^2 + 32Z_1 - 24Z_1Z_2 + 9Z_2^2 - 24Z_2 + 88Z_1Z_3 - 66Z_2Z_3 + 121Z_3^2 + 88Z_3 - 40Z_1Z_4 + 30Z_2Z_4 - 110Z_3Z_4 + 25Z_4^2 - 40Z_4 - 24Z_1Z_5 + 18Z_2Z_5 - 66Z_3Z_5 + 30Z_4Z_5 + 9Z_5^2 - 24Z_5 + 16 + (6Z_2 + 3Z_3 + 9 - 6Z_1 - 3Z_5)(6Z_2 + 3Z_3 + 9 - 6Z_1 - 3Z_5) + (12Z_4 + 4Z_5 + 8 - 10I - 4Z_1 - 2Z_2) \\ (12Z_4 + 4Z_5 + 8 - 10I - 4Z_1 - 2Z_2) + (3I + 2Z_1 + 2Z_2 - 6Z_3 - 2Z_4 + Z_5)(3I + 2Z_1 + 2Z_2 - 6Z_3 - 2Z_4 + Z_5) + (8I + 3Z_1 + 5Z_2 - 3Z_3 + 4Z_4 - 17Z_5 + 8) \\ (8I + 3Z_1 + 5Z_2 - 3Z_3 + 4Z_4 - 17Z_5 + 8)$$

Expand  $(6Z_2 + 3Z_3 + 9 - 6Z_1 - 3Z_5)(6Z_2 + 3Z_3 + 9 - 6Z_1 - 3Z_5)$ :  $-72Z_1Z_2 - 36Z_1Z_3 + 36Z_1Z_5 - 108Z_1 + 36Z_1^2 + 36Z_2^2 + 108Z_2 + 36Z_2Z_3 + 9Z_3^2 + 54Z_3 - 36Z_2Z_5 - 18Z_3Z_5 - 54Z_5 + 9Z_5^2 + 81 + (12Z_4 + 4Z_5 + 8 - 10I - 4Z_1 - 2Z_2)(12Z_4 + 4Z_5 + 8 - 10I - 4Z_1 - 2Z_2) + (3I + 2Z_1 + 2Z_2 - 6Z_3 - 2Z_4 + Z_5)(3I + 2Z_1 + 2Z_2 - 6Z_3 - 2Z_4 + Z_5) + (8I + 3Z_1 + 5Z_2 - 3Z_3 + 4Z_4 - 17Z_5 + 8)(8I + 3Z_1 + 5Z_2 - 3Z_3 + 4Z_4 - 17Z_5 + 8)$

$$= -240IZ_1 - 320IZ_2 + 80IZ_3 - 160IZ_4 - 160IZ_5 + 400I^2 + 80I + 36Z_1^2 - 24Z_1 + 96Z_1Z_2 + 64Z_2^2 - 32Z_2 - 24Z_1Z_3 - 32Z_2Z_3 + 4Z_3^2 + 8Z_3 + 48Z_1Z_4 + 64Z_2Z_4 - 16Z_3Z_4 + 16Z_4^2 - 16Z_4 + 48Z_1Z_5 + 64Z_2Z_5 - 16Z_3Z_5 + 32Z_4Z_5 + 16Z_5^2 - 16Z_5 + 4 - 32IZ_1 + 24IZ_2 - 88IZ_3 + 40IZ_4 + 24IZ_5 + 16I^2 - 32I + 16Z_1^2 + 32Z_1 - 24Z_1Z_2 + 9Z_2^2 - 24Z_2 + 88Z_1Z_3 - 66Z_2Z_3 + 121Z_3^2 + 88Z_3 - 40Z_1Z_4 + 30Z_2Z_4 - 110Z_3Z_4 + 25Z_4^2 - 40Z_4 - 24Z_1Z_5 + 18Z_2Z_5 - 66Z_3Z_5 + 30Z_4Z_5 + 9Z_5^2 - 24Z_5 + 16 + (6Z_2 + 3Z_3 + 9 - 6Z_1 - 3Z_5)(6Z_2 + 3Z_3 + 9 - 6Z_1 - 3Z_5) + (12Z_4 + 4Z_5 + 8 - 10I - 4Z_1 - 2Z_2) \\ (12Z_4 + 4Z_5 + 8 - 10I - 4Z_1 - 2Z_2) + (3I + 2Z_1 + 2Z_2 - 6Z_3 - 2Z_4 + Z_5)(3I + 2Z_1 + 2Z_2 - 6Z_3 - 2Z_4 + Z_5) + (8I + 3Z_1 + 5Z_2 - 3Z_3 + 4Z_4 - 17Z_5 + 8)(8I + 3Z_1 + 5Z_2 - 3Z_3 + 4Z_4 - 17Z_5 + 8)$$

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$$\text{Expand } (12Z_4 + 4Z_5 + 8 - 10I - 4Z_1 - 2Z_2)(12Z_4 + 4Z_5 + 8 - 10I - 4Z_1 - 2Z_2): \quad 80IZ_1 + 40IZ_2 - 240IZ_4 - 80IZ_5 - 160I + 100I^2 - 64Z_1 + 16Z_1^2 - 32Z_2 + 16Z_1Z_2 + 4Z_2^2 + 144Z_4^2 + 192Z_4 - 96Z_1Z_4 - 48Z_2Z_4 + 96Z_4Z_5 + 16Z_5^2 + 64Z_5 - 32Z_1Z_5 - 16Z_2Z_5 + 64$$



$$\text{Expand } (3I + 2Z_1 + 2Z_2 - 6Z_3 - 2Z_4 + Z_5)(3I + 2Z_1 + 2Z_2 - 6Z_3 - 2Z_4 + Z_5): \quad 12IZ_1 + 12IZ_2 - 36IZ_3 - 12IZ_4 + 6IZ_5 + 9I^2 + 4Z_1^2 + 8Z_2 + 4Z_2^2 - 24Z_1Z_3 - 24Z_2Z_3 + 36Z_3^2 - 8Z_1Z_4 - 8Z_2Z_4 + 24Z_3Z_4 + 4Z_4^2 + 4Z_1Z_5 + 4Z_2Z_5 - 12Z_3Z_5 - 4Z_4Z_5 + Z_5^2$$



$$\text{Expand } (8I + 3Z_1 + 5Z_2 - 3Z_3 + 4Z_4 - 17Z_5 + 8)(8I + 3Z_1 + 5Z_2 - 3Z_3 + 4Z_4 - 17Z_5 + 8): \quad 48IZ_1 + 80IZ_2 - 48IZ_3 + 64IZ_4 - 272IZ_5 + 64I^2 + 128I + 9Z_1^2 + 48Z_1 + 30Z_1Z_2 + 25Z_2^2 + 80Z_2 - 18Z_1Z_3 - 30Z_2Z_3 + 9Z_3^2 - 48Z_3 + 24Z_1Z_4 + 40Z_2Z_4 - 24Z_3Z_4 + 16Z_4^2 + 64Z_4 - 102Z_1Z_5 - 170Z_2Z_5 + 102Z_3Z_5 - 136Z_4Z_5 + 289Z_5^2 - 272Z_5 + 64$$



$$= 589I^2 + 16I - 132IZ_1 - 164IZ_2 - 92IZ_3 - 308IZ_4 - 482IZ_5 + 117Z_1^2 + 54Z_1Z_2 + 142Z_2^2 + 100Z_2 + 78Z_2Z_4 + 179Z_3^2 + 102Z_3 + 205Z_4^2 + 200Z_4 + 18Z_4Z_5 + 340Z_5^2 + 229 - 14Z_1Z_3 - 72Z_1Z_4 - 70Z_1Z_5 - 116Z_1 - 116Z_2Z_3 - 136Z_2Z_5 - 126Z_3Z_4 - 10Z_3Z_5 - 302Z_5$$



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