Given the binomial expressions below, create the codes that will compute the coefficients of its expansion and put it inside a list accordingly.

1. $(x + 2y)^5$

Binomial expression 1: [1, 10, 40, 80, 80, 32]

2. $(2x - 2y)^6$

Binomial expression 2: [64, -384, 960, -1280, 960, -384, 64]

3.
$$(x + 3y)^7$$

Binomial expression 3: [1, 21, 189, 945, 2835, 5103, 5103, 2187]

4.
$$(-3x - y)^8$$

Binomial expression 4: [6561, 17496, 20412, 13608, 5670, 1512, 252, 24, 1]

5.
$$(4x + 3y)^{10}$$

Binomial expression 5: [1048576, 7864320, 26542080, 53084160, 69672960, 62705664, 39191040, 16796160, 4723920, 787320, 59049]

6.
$$(-5x - 2y)^{12}$$

Binomial expression 6: [244140625, 1171875000, 2578125000, 3437500000, 3093750000, 1980000000, 9240000000, 3168000000, 79200000, 14080000, 1689600, 122880, 4096]

7.
$$(3x + y)^{14}$$

Binomial expression 7: [4782969, 22320522, 48361131, 64481508, 59108049, 39405366, 19702683, 7505784, 2189187, 486486, 81081, 9828, 819, 42, 1]

8.
$$(-x-2y)^{16}$$

Binomial expression 8: [1, 32, 480, 4480, 29120, 139776, 512512, 1464320, 3294720, 5857280, 8200192, 8945664, 7454720, 4587520, 1966080, 524288, 65536]

9.
$$(2x + y)^{18}$$

Binomial expression 9: [262144, 2359296, 10027008, 26738688, 50135040, 70189056, 76038144, 65175552, 44808192, 24893440, 11202048, 4073472, 1188096, 274176, 48960, 6528, 612, 36, 1]

10. $(2x - 4y)^{20}$

Binomial expression 10: [1048576, -41943040, 796917760, -9563013120, 81285611520, -520227913728, 2601139568640, -10404558274560, 33814814392320, -90172838379520, 19 8380244434944, -360691353518080, 541037030277120, -665891729571840, 66589172957184 0, -532713383657472, 332945864785920, -156680406958080, 52226802319360, -109951162 77760, 1099511627776]