

k: 1

$$24x^3 + 32x$$

---

k: 2

$$1128x^6 + 1472x^4 + 640x^2$$

---

k: 3

$$59712x^9 + 695552/9x^7 + 392192/9x^5 + 94208/9x^3$$

---

k: 4

$$3331176x^{12} + 12878464/3x^{10} + 24160000/9x^8 + 8501248/9x^6 + 1386496/9x^4$$

---

k: 5

$$191434944x^{15} + 18453092096/75x^{13} + 7321081856/45x^{11} + 5078376448/75x^9 + 259801088/15x^7 + 479264768/225x^5$$

---

k: 6

$$11213572800x^{18} + 3236891305472/225x^{16} + 19948323410944/2025x^{14} + 9135915352064/2025x^{12} + 960724189184/675x^{10} + 580751065088/2025x^8 + 57276104704/2025x^6$$

---

k: 7

$$665672363520x^{21} + 3134385982195712/3675x^{19} + 403773323091968/675x^{17} + 4131808915521536/14175x^{15} + 10327927557849088/99225x^{13} + 17979607089152/675x^{11} + 62892160319488/14175x^9 + 7246893285376/19845x^7$$

---

k: 8

$$39907278509160x^{24} + 187722112034860288/3675x^{22} + 1205789835126911488/33075x^{20} +$$

$$\begin{aligned}
& 263020485348847616/14175*x^{18} + \\
& 713888871490777088/99225*x^{16} + \\
& 211178520811470848/99225*x^{14} + \\
& 6521950245093376/14175*x^{12} + \\
& 6489531627864064/99225*x^{10} + 458274036514816/99225*x^8
\end{aligned}$$