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|  | **1st Degree** | **2nd Degree** |
| $$s^{0.1}$$ | $$\frac{1.6 s + 1}{s + 1.6}$$ | $$\frac{1.677 s^{2}+ 15.72 s + 1}{s^{2}+ 15.72 s + 1.677}$$ |
| $$s^{0.2}$$ | $$\frac{ 2.566 s + 1}{s + 2.566}$$ | $$\frac{2.824 s^{2}+ 20.59 s + 1}{s^{2}+ 20.59 s + 2.824}$$ |
| $$s^{0.3}$$ | $$\frac{4.136 s + 1}{s + 4.136}$$ | $$\frac{4.796 s^{2}+ 27.28 s + 1}{s^{2}+ 27.28 s + 4.796}$$ |
| $$s^{0.4}$$ | $$\frac{6.724 s + 1}{s + 6.724}$$ | $$\frac{8.266 s^{2}+ 36.75 s + 1}{s^{2}+ 36.75 s + 8.266}$$ |
| $$s^{0.5}$$ | $$\frac{11.1 s + 1}{s + 11.1}$$ | $$\frac{14.58 s^{2}+ 50.71 s + 1}{s^{2}+ 50.71 s + 14.58}$$ |
| $$s^{0.6}$$ | $$\frac{18.82 s + 1}{s + 18.82}$$ | $$\frac{26.67 s^{2}+ 72.57 s + 1}{s^{2}+ 72.57 s + 26.67}$$ |
| $$s^{0.7}$$ | $$\frac{33.53 s + 1}{s + 33.53}$$ | $$\frac{51.85 s^{2}+ 110.3 s + 1}{s^{2}+ 110.3 s + 51.85}$$ |
| $$s^{0.8}$$ | $$\frac{66.13 s + 1}{s + 66.13}$$ | $$\frac{113.1 s^{2}+ 187.8 s + 1}{s^{2}+ 187.8 s + 113.1}$$ |
| $$s^{0.9}$$ | $$\frac{170.9 s + 1}{s + 170.9}$$ | $$\frac{328.6 s^{2}+ 424.3 s + 1}{s^{2}+ 424.3 s + 328.6}$$ |
|  | **3rd Degree** | **4th Degree** |
| $$s^{0.1}$$ | $$\frac{1.757 s^{3}+ 49.67 s^{2}+ 41.97 s + 1}{s^{3}+ 41.97 s^{2}+ 49.67 s + 1.757}$$ | $$\frac{1.828 s^{4}+ 102.7 s^{3}+ 329.8 s^{2}+ 78.91 s + 1}{s^{4}+ 78.91 s^{3}+ 329.8 s^{2}+ 102.7 s + 1.828}$$ |
| $$s^{0.2}$$ | $$\frac{3.101 s^{3}+ 72.7 s^{2}+ 51.88 s + 1}{s^{3}+ 51.88 s^{2}+ 72.7 s + 3.101}$$ | $$\frac{3.357 s^{4}+ 161 s^{3}+ 453.9 s^{2}+ 95 s + 1}{s^{4}+ 95 s^{3}+ 453.9 s^{2}+ 161 s + 3.357}$$ |
| $$s^{0.3}$$ | $$\frac{5.526 s^{3}+ 108 s^{2}+ 65.01 s + 1}{s^{3}+ 65.01 s^{2}+ 108 s + 5.526}$$ | $$\frac{6.227 s^{4}+ 256.4 s^{3}+ 635 s^{2}+ 116.1 s + 1}{s^{4}+ 116.1 s^{3}+ 635 s^{2}+ 256.4 s + 6.227}$$ |
| $$s^{0.4}$$ | $$\frac{10.01 s^{3}+ 163.6 s^{2}+ 83.01 s + 1}{s^{3}+ 83.01 s^{2}+ 163.6 s + 10.01}$$ | $$\frac{11.74 s^{4}+ 417.1 s^{3}+ 907.9 s^{2}+ 144.6 s + 1}{s^{4}+ 144.6 s^{3}+ 907.9 s^{2}+ 417.1 s + 11.74}$$ |
| $$s^{0.5}$$ | $$\frac{18.58 s^{3}+ 254.8 s^{2}+ 108.8 s + 1}{s^{3}+ 108.8 s^{2}+ 254.8 s + 18.58}$$ | $$\frac{22.72 s^{4}+ 698.8 s^{3}+ 1337 s^{2}+ 185 s + 1}{s^{4}+ 185 s^{3}+ 1337 s^{2}+ 698.8 s + 22.72}$$ |
| $$s^{0.6}$$ | $$\frac{35.85 s^{3}+ 413.7 s^{2}+ 148.2 s + 1}{s^{3}+ 148.2 s^{2}+ 413.7 s + 35.85}$$ | $$\frac{45.73 s^{4}+ 1222 s^{3}+ 2056 s^{2}+ 246.3 s + 1}{s^{4}+ 246.3 s^{3}+ 2056 s^{2}+ 1222 s + 45.73}$$ |
| $$s^{0.7}$$ | $$\frac{73.74 s^{3}+ 717.2 s^{2}+ 215 s + 1}{s^{3}+ 215 s^{2}+ 717.2 s + 73.74}$$ | $$\frac{98.22 s^{4}+ 2287 s^{3}+ 3381 s^{2}+ 349.4 s + 1}{s^{4}+ 349.4 s^{3}+ 3381 s^{2}+ 2287 s + 98.22}$$ |
| $$s^{0.8}$$ | $$\frac{170.7 s^{3}+ 1401 s^{2}+ 350.1 s + 1}{s^{3}+ 350.1 s^{2}+ 1401 s + 170.7}$$ | $$\frac{237.8 s^{4}+ 4833 s^{3}+ 6277 s^{2}+ 557 s + 1}{s^{4}+ 557 s^{3}+ 6277 s^{2}+ 4833 s + 237.8}$$ |
| $$s^{0.9}$$ | $$\frac{528.2 s^{3}+ 3662 s^{2}+ 758.6 s + 1}{s^{3}+ 758.6 s^{2}+ 3662 s + 528.2}$$ | $$\frac{770 s^{4}+ 13690 s^{3}+ 15610 s^{2}+ 1182 s + 1}{s^{4}+ 1182 s^{3}+ 15610 s^{2}+ 13690 s + 770}$$ |