

GRAPH CONSTRUCTION ASSIGNMENTS

1.	a. $y = \frac{2x^2 - 5x - 1}{3x + 1}$	b. $(x^2 - 1)e^{-x^2}$
2.	a. $y = \frac{2x^2 + 5x - 1}{1 - 3x}$	b. $y = \frac{(5x - 4)e^x}{x - 1}$
3.	a. $y = \frac{18x^2 - 9x + 8}{6(2x - 1)}$	b. $y = \frac{8\sqrt{x} - 4x - 1}{4x + 1}$
4.	a. $y = -\frac{18x^2 + 9x + 8}{3(2x + 1)}$	b. $y = \frac{1}{5}(x^2 + 4x + 1)e^{-x}$
5.	a. $y = \frac{3x^2 + 2x - 2}{3x + 5}$	b. $y = \frac{ex + \ln x}{\ln x}$
6.	a. $y = \frac{3x^2 - 2x - 2}{5 - 3x}$	b. $y = \frac{\ln^2 x}{x}$
7.	a. $y = \frac{8x^2 - 18x - 17}{2(2x - 7)}$	b. $y = \frac{\sqrt[3]{x^2}}{x + 1}$
8.	a. $y = \frac{8x^2 + 18x - 17}{2x + 7}$	b. $\frac{\ln^2 x - 1}{x}$
9.	a. $y = \frac{18x^2 - 15x - 17}{2(3x - 5)}$	b. $y = \ln(x^2 - 3x + 3)$
10.	a. $y = \frac{18x^2 + 15x - 17}{3(3x + 5)}$	b. $y = e^{-(x^2 - 3x + 2)} - 1$
11.	a. $y = \frac{18x^2 - 15x + 25}{2(3x - 5)}$	b. $(\ln(x^2))^2 - 3\ln(x^2) + 2$
12.	a. $y = \frac{18x^2 + 15x + 25}{3x + 5}$	b. $y = (x + 1)\sqrt[3]{x^2}$
13.	a. $y = \frac{25x^2 + 10x + 6}{2(5x - 1)}$	b. $(x^2 - 4x + 3)e^x$
14.	a. $y = \frac{25x^2 - 10x + 6}{3(5x + 1)}$	b. $\frac{(\ln x)^2 - 1}{x}$
15.	a. $y = \frac{6x^2 - 10x + 1}{3(2x - 5)}$	b. $y = 2x(\ln^2 x - 1)$

16.	a. $y = \frac{6x^2 + 10x + 1}{5(2x + 5)}$	b. $y = \frac{x^2 - 1}{e^x}$
17.	a. $y = \frac{18x^2 - 9x + 8}{5(1 - 2x)}$	b. $y = x(x - 1)e^x$
18.	a. $y = \frac{3x^2 - 2x - 2}{2(3x - 5)}$	b. $y = \ln(x^2 - x + 1)$
19.	a. $y = \frac{5x^2 - 24x + 16}{2 - 5x}$	b. $y = x(3x - 20\sqrt{x} + 24)$
20.	a. $y = \frac{5x^2 - x + 6}{5x + 2}$	b. $y = \sqrt{x^3 - x}$
21.	a. $y = \frac{5x^2 + 6x + 18}{5x + 3}$	b. $y = x(\ln^2 x - 1)$
22.	a. $y = \frac{18x^2 + x + 3}{3(2x - 1)}$	b. $(x^2 - 2)e^{-x^2}$
23.	a. $y = \frac{4x^2 + 10x - 5}{5(2x + 7)}$	b. $y = \frac{x - 5\sqrt{x} + 5}{\sqrt{x} - 1}$
24.	a. $y = \frac{5x^2 - 32}{5x - 14}$	b. $y = \frac{\ln^2(x + 1)}{x + 1}$
25.	a. $y = \frac{5x^2 - 5x + 2}{5x - 6}$	b. $y = x\sqrt[3]{(x - 1)^2}$
26.	a. $y = \frac{4x^2 - 4x + 1}{3(4x - 7)}$	b. $y = x(\ln^2 x - 4\ln x + 3)$
27.	a. $y = \frac{4x^2 - 4x - 3}{21 - 8x}$	b. $y = \frac{\ln^2 x - 1}{x^2}$
28.	a. $y = \frac{3x^2 + 4}{3x + 2}$	b. $y = \ln(e^{2x} - 3e^x + 3)$
29.	a. $y = \frac{3x^2 - 4x - 1}{3x + 2}$	b. $y = x(\ln^2 x - 3\ln x + 2)$
30.	a. $y = \frac{x \ln x}{2 \ln x - 1}$	b. $y = \frac{x^2 - x - 2}{x^2 - x + 2}$