

1.  $f(x) = \frac{x^2 - 3x - 2}{x + 1}$
2.  $f(x) = x\sqrt{x + 3}$
3.  $f(x) = (x + 5)x^{2/3}$
4.  $f(x) = \frac{\sqrt{x^2 - 2}}{x}$
5.  $f(x) = \sqrt{x^2 - 5x + 6}$
6.  $f(x) = \frac{x}{\sqrt[3]{x^2 - 4}}$
7.  $f(x) = \sqrt{x^2 + 1} - \sqrt{x^2 - 1}$
8.  $f(x) = x + e^x$
9.  $f(x) = (1 + x^2)e^x$
10.  $f(x) = e^{-x^2}$
11.  $f(x) = e^{1/x}$
12.  $f(x) = e^{1/x} - x$
13.  $f(x) = (x + 2)e^{1/x}$
14.  $f(x) = e^{\sin x}$
15.  $f(x) = \ln(x^2 - 1)$
16.  $f(x) = x^2 \ln x$
17.  $f(x) = x \ln^2 x$
18.  $f(x) = \frac{\ln x}{\sqrt{x}}$
19.  $f(x) = x + \ln|x| - 1$
20.  $f(x) = \ln(\sin x)$

- 21.  $f(x) = x + \sin x$
- 22.  $f(x) = \sin x + \cos x$
- 23.  $f(x) = x + \arcsin x$
- 24.  $f(x) = x + \arccos x$
- 25.  $f(x) = x + \arctan x$
- 26.  $f(x) = \arctan \frac{1}{x}$
- 27.  $f(x) = x^x$
- 28.  $f(x) = \arctan(\sin x)$