20
$$f(x) = 6x^3 - 4x$$
.
21 $f(x) = \frac{2x+3}{x^2+1}$.

22 **C**
$$f(x) = \frac{x^3 + 1}{x^2 + x + 1}$$
.
23 $f(x) = \frac{2x^2 - 1}{4x^2 + 5}$.

R $f(x) = -\frac{4}{3}x^4 - 3x^2 + \frac{1}{3}$.

24
$$\lim_{x \to +\infty} \left(x^2 + \frac{2}{x} \right)$$
; $\lim_{x \to +\infty} (2x + \ln x)$.
25 $\lim_{x \to +\infty} (2x + e^x)$; $\lim_{x \to 0} \frac{e^x}{x}$.

26 R
$$\lim_{x \to +\infty} \frac{1}{e^x + 1}$$
; $\lim_{x \to +\infty} 3e^{-2x}$.

$$\lim_{x \to 1} x^2 e^x; \quad \lim_{x \to 1} 2x^3 \ln x.$$

28 C
$$\lim_{x \to +\infty} \ln (x-2)$$
; $\lim_{\substack{x \to 2 \\ x > 2}} \ln (x-2)$.

$$\lim_{x \to +\infty} 2e^{x+1}; \lim_{x \to -\infty} e^{1-x}.$$

30
$$\lim_{x \to +\infty} x^2 \ln x$$
; $\lim_{x \to -\infty} (x+1) e^{-x}$.

31
$$\lim_{x \to 0} (e^x + e^{-x}); \lim_{x \to -\infty} e^{\frac{1}{x}}.$$

32
$$\mathbb{R}$$
 $\lim_{x \to +\infty} \left(2x + \frac{\ln x}{x}\right)$; $\lim_{x \to +\infty} \left(1 + \frac{e^x}{x^2}\right)$.