Evaluate the limit of the following:

1. $\lim\limits_{x \to 1} \dfrac{x^2 + 5x + 6}{x + 1}$

$= \dfrac{1.0001^2 + 5(1.0001) + 6}{1.0001 + 1} = \boxed{6}$

2. $\lim\limits_{x \to 2} \dfrac{x^2 - 4}{x^2 + 2x - 8}$

$= \dfrac{2.0001^2 - 4}{2.0001^2 + 2(2.0001) - 8} = \boxed{0.7 \text{ or } \dfrac{2}{3}}$

3. $\lim\limits_{x \to 0} \dfrac{1}{x}$

$= \dfrac{1}{0.0001} = 10,000 = \boxed{\infty}$

4. $\lim\limits_{x \to \infty} \dfrac{3x^2 - 2x + 4}{-2x^2 - 3x^2 + 2}$

$= \dfrac{3(99999)^2 - 2(99999) + 4}{-2(99999)^2 - 1(99999)^2 + 2} = \boxed{-1.5 \text{ or } -\dfrac{3}{2}}$

Determine the equation of the vertical, horizontal, or inclined asymptote(s) of the following functions.

5. $y = \dfrac{3x}{x - 5}$

m=n; $y = \dfrac{3}{1} = 3$ $x - 5 = 0$

$\boxed{y = 3}$ HA $\boxed{x = 5}$ VA $\boxed{\text{NO INCLINED ASYMPTOTE}}$

6. $y = \dfrac{2x^4}{x^4 - 3x^2 - 1}$

m=n; $y = \dfrac{2}{1} = 2$ $x^4 - 3x^2 - 1 = 0$

$\boxed{y = 2}$ HA $\boxed{\begin{array}{l} x = \pm 1.81i \\ x = \pm 0.55i \end{array}}$ VA $\boxed{\text{NO INCLINED ASYMPTOTE}}$

7. $y = \dfrac{2x}{x^2 - 5}$

m<n $\boxed{y = 0}$ HA $\begin{array}{l} x^2 = 5 \\ x^2 = 5 \end{array}$ $\boxed{\text{NO INCLINED ASYMPTOTE}}$

$\boxed{x = \pm \sqrt{5}}$ VA

8. $y = \dfrac{3x^2 + x - 1}{x - 1}$

m>n: $\boxed{\text{NO HORIZONTAL ASYMPTOTE}}$

$x - 1 = 0$

$\boxed{x = 1}$ VA

$\begin{array}{cccc} & x & 1 & -1 \\ & 3 & 4 & \\ & 3 & 4 & \end{array}$

$\therefore y = 3x + 4$

$\boxed{y = 3x + 4}$ IA

Determine dy/dx for the following:

9. $y = \sqrt{x^5} - 3\sqrt[3]{x} - 5$

$y = x^{5/2} - 3x^{1/3} - 5$

$\dfrac{dy}{dx} = \dfrac{5}{2}x^{3/2} - x^{-2/3}$

$\boxed{\dfrac{dy}{dx} = \dfrac{5}{2}\sqrt{x} - \dfrac{1}{\sqrt[3]{x^2}}}$

10. $y = e^{\tan x}$

$\dfrac{dy}{dx} = \tan x \cdot e^{\tan x}$

$\dfrac{dy}{dx} = \sec^2 x \cdot e^{\tan x}$

$\boxed{\dfrac{dy}{dx} = e^{\tan x} \sec^2 x}$

11. $y = x^{x^2}$

$\ln y = x^2 \ln x$

$\dfrac{dy}{dx} = x^2\left(\dfrac{1}{x}\right) + 2x \ln x$

$\dfrac{dy}{dx} = x^{x^2}(x + 2x \ln x) = x^{x^2}(1 + \ln(x^2))$

$\boxed{\dfrac{dy}{dx} = x^{x^2 + 1}(1 + \ln(x^2))}$

12. $x^3 y^3 - 2xy = 0$

$3x^2 + 3y^2 y' - [2y + 2xy'] = 0$

$3x^2 + 3y^2 y' - 2y - 2xy' = 0$

$3y^2 y' - 2xy' = 2y - 3x^2$

$y'(3y^2 - 2x) = 2y - 3x^2$

$\boxed{y' = \dfrac{2y - 3x^2}{3y^2 - 2x}}$

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