

$$1) \quad \lim_{x \rightarrow 2} \frac{x^2 - 4}{x^2 - 3x + 2} =$$

$$2) \quad \lim_{x \rightarrow 1} \left(\frac{1}{1-x} - \frac{3}{1-x^3} \right) =$$

$$3) \quad \lim_{x \rightarrow 0} \left(\frac{\sin x}{x} + \frac{\sin 3x}{x} + \frac{\sin 5x}{x} \right) =$$

$$4) \quad (5x^3 - 7x^2 + 8x - 14)' =$$

$$5) \quad \left(\frac{5}{x^2} \right)' =$$

$$6) \quad (x^2 \ln x)' =$$

$$7) \quad \left(\frac{2x-1}{2x+1} \right)' =$$

$$8) \quad (\sqrt[3]{x^3 - 3})' =$$

$$9) \quad \left(\frac{1 + \sin x}{\cos x} \right)' =$$

$$10) \quad (e^{2x})' =$$

$$11) \quad (a^x)' =$$