L'Hôpital's Rule for Limits · 1

Find the limit: $\lim_{x \to 0} \frac{e^{2x} - 1 - 2x}{x^2}$

L'Hôpital's Rule for Limits · 2

Find the limit: $\lim_{x \to 0} \frac{\sin 2x}{\sin 3x}$

L'Hôpital's Rule for Limits · 3

Find the limit: $\lim_{x \to 1}$ of $\frac{x^2 - 5x + 4}{x^2 - 6x + 5}$

L'Hôpital's Rule for Limits · 4

Find the limit: $\lim_{x \to 1} \frac{5 \ln x}{x^4 - 1}$

L'Hôpital's Rule for Limits · 5

Find the limit:

$$\lim_{x \to \infty} \text{ of } \frac{x^2}{e^x}$$

L'Hôpital's Rule for Limits · 6

Find the limit: $\lim_{x \to 0} \frac{1 - \cos 4x}{x^2}$

L'Hôpital's Rule for Limits · 7

Find the limit: $\lim_{x \to \infty} \frac{-5x - 1}{3x^2 + 5x + 8}$

L'Hôpital's Rule for Limits · 8

Find the limit: $\lim_{x \to 0} \frac{e^{6x} - 1}{2x}$

L'Hôpital's Rule for Limits · 2

ANSWER

$$\frac{2}{3}$$

L'Hôpital's Rule for Limits · 1

ANSWER

$$2$$

L'Hôpital's Rule for Limits · 4

ANSWER

$$\frac{5}{4}$$

L'Hôpital's Rule for Limits · 3

ANSWER

$$\frac{3}{4}$$

L'Hôpital's Rule for Limits · 6

ANSWER

$$8$$

L'Hôpital's Rule for Limits · 5

ANSWER

$$0$$

L'Hôpital's Rule for Limits · 8

ANSWER

$$3$$

L'Hôpital's Rule for Limits · 7

ANSWER

$$0$$

L'Hôpital's Rule for Limits · 9

Find the limit: $\lim(x\to 0)$ of $\dfrac{e^{3x} - 1 - 3x}{x^2}$

L'Hôpital's Rule for Limits · 10

Find the limit: $\lim(x\to 0)$ of $\dfrac{\sin 6x}{\sin 3x}$

L'Hôpital's Rule for Limits · 11

Find the limit: $\lim(x\to -2)$ of $\dfrac{x^3 + 3x^2 + 3x + 2}{x^2 - 3x - 10}$

L'Hôpital's Rule for Limits · 12

Find the limit: $\lim(x\to 1)$ of $\dfrac{x^4 - 1}{\ln x}$

L'Hôpital's Rule for Limits · 13

Find the limit:

$$\lim(x\to\infty) \text{ of } \frac{x^3}{e^x}$$

L'Hôpital's Rule for Limits · 14

Find the limit: $\lim(x\to\infty)$ of $\dfrac{6x^2 + 5x - 6}{2x^2 + 4x - 1}$

L'Hôpital's Rule for Limits · 15

Find the limit: $\lim(x\to 0)$ of $\dfrac{e^{3x} - 1}{2x}$

L'Hôpital's Rule for Limits · 16

Find the limit: $\lim(x\to 0)$ of $\dfrac{1 - \cos 2x}{x^2}$

L'Hôpital's Rule for Limits · 10

ANSWER

$$2$$

L'Hôpital's Rule for Limits · 9

ANSWER

$$\frac{9}{2}$$

L'Hôpital's Rule for Limits · 12

ANSWER

$$4$$

L'Hôpital's Rule for Limits · 11

ANSWER

$$\frac{3}{-7}$$

L'Hôpital's Rule for Limits · 14

ANSWER

$$3$$

L'Hôpital's Rule for Limits · 13

ANSWER

$$0$$

L'Hôpital's Rule for Limits · 16

ANSWER

$$2$$

L'Hôpital's Rule for Limits · 15

ANSWER

$$\frac{3}{2}$$

L'Hôpital's Rule for Limits · 17

Find the limit: $\lim_{x \to 0} \frac{\sin 4x}{e^{3x} - 1}$

L'Hôpital's Rule for Limits · 18

Find the limit: $\lim_{x \to -3}$ of $\frac{x^2 - 2x - 15}{x^2 - x - 12}$

L'Hôpital's Rule for Limits · 19

Find the limit: $\lim_{x \to 0} \frac{\cos 3x - 1}{x^2}$

L'Hôpital's Rule for Limits · 20

Find the limit: $\lim_{x \to \infty} \frac{2x + 6}{4x^2 - 3x - 5}$

L'Hôpital's Rule for Limits · 21

Find the limit: $\lim_{x \to 0} \frac{1 - \cos x}{x^2}$

L'Hôpital's Rule for Limits · 22

Find the limit: $\lim_{x \to 0} \frac{\sin 2x}{\sin 7x}$

L'Hôpital's Rule for Limits · 23

Find the limit: $\lim_{x \to 1}$ of $\frac{x^3 - 2x + 1}{2x^2 - 8x + 6}$

L'Hôpital's Rule for Limits · 24

Find the limit: $\lim_{x \to 1} \frac{2 \ln x}{x - 1}$

L'Hôpital's Rule for Limits · 18

ANSWER

$$\frac{8}{7}$$

L'Hôpital's Rule for Limits · 17

ANSWER

$$\frac{4}{3}$$

L'Hôpital's Rule for Limits · 20

ANSWER

$$0$$

L'Hôpital's Rule for Limits · 19

ANSWER

$$\frac{9}{-2}$$

L'Hôpital's Rule for Limits · 22

ANSWER

$$\frac{2}{7}$$

L'Hôpital's Rule for Limits · 21

ANSWER

$$\frac{1}{2}$$

L'Hôpital's Rule for Limits · 24

ANSWER

$$2$$

L'Hôpital's Rule for Limits · 23

ANSWER

$$\frac{1}{-4}$$