L'Hôpital's Rule for Limits · 1

Find the limit: $\lim_{x \to -3}$ of

$$\frac{x^2 + 4x + 3}{x^2 - 2x - 15}$$

L'Hôpital's Rule for Limits · 2

Find the limit: $\lim_{x \to 0}$

$$\frac{e^{3x} - 1}{3x}$$

of

L'Hôpital's Rule for Limits · 3

Find the limit: $\lim_{x \to 0}$

$$\frac{\sin 2x}{2x}$$

of

L'Hôpital's Rule for Limits · 4

Find the limit: $\lim_{x \to 1}$

$$\frac{x^4 - 1}{\ln x}$$

of

L'Hôpital's Rule for Limits · 5

Find the limit: $\lim_{x \to \infty}$ of

$$\frac{-2x^2 - 6x - 4}{2x^2 - 3x - 2}$$

L'Hôpital's Rule for Limits · 6

Find the limit: $\lim_{x \to 3}$ of

$$\frac{3x^2 - 5x - 12}{x^2 - 9x + 18}$$

L'Hôpital's Rule for Limits · 7

Find the limit: $\lim_{x \to 0}$

$$\frac{e^{-4x} - 1}{3x}$$

of

L'Hôpital's Rule for Limits · 8

Find the limit: $\lim_{x \to 3}$ of

$$\frac{2x^2 - 11x + 15}{x^2 - 5x + 6}$$

L'Hôpital's Rule for Limits · 2

ANSWER

$$1$$

L'Hôpital's Rule for Limits · 1

ANSWER

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

L'Hôpital's Rule for Limits · 4

ANSWER

$$4$$

L'Hôpital's Rule for Limits · 3

ANSWER

$$1$$

L'Hôpital's Rule for Limits · 6

ANSWER

$$\frac{13}{-3}$$

L'Hôpital's Rule for Limits · 5

ANSWER

$$-1$$

L'Hôpital's Rule for Limits · 8

ANSWER

$$1$$

L'Hôpital's Rule for Limits · 7

ANSWER

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

L'Hôpital's Rule for Limits · 9

Find the limit: $\lim_{x \to 2}$ of $\frac{x^3 - 5x^2 + 2x + 8}{2x^2 + x - 10}$

L'Hôpital's Rule for Limits · 10

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

L'Hôpital's Rule for Limits · 11

Find the limit: $\lim_{x \to 1}$ $\frac{3 \ln x}{x - 1}$

L'Hôpital's Rule for Limits · 12

Find the limit: $\lim_{x \to \infty}$ $\frac{-4x - 2}{5x^2 + 5x - 9}$

L'Hôpital's Rule for Limits · 13

Find the limit: $\lim_{x \to 0}$ $\frac{e^{-2x} - 1}{5x}$

L'Hôpital's Rule for Limits · 14

Find the limit:

$$\lim_{x \to \infty} \frac{x^3}{e^x}$$

L'Hôpital's Rule for Limits · 15

Find the limit: $\lim_{x \to 0}$ $\frac{\sin 6x}{x}$

L'Hôpital's Rule for Limits · 16

Find the limit: $\lim_{x \to 0}$ $\frac{\sin 3x}{5x}$

L'Hôpital's Rule for Limits · 10

ANSWER

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

L'Hôpital's Rule for Limits · 9

ANSWER

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

L'Hôpital's Rule for Limits · 12

ANSWER

$$0$$

L'Hôpital's Rule for Limits · 11

ANSWER

$$3$$

L'Hôpital's Rule for Limits · 14

ANSWER

$$0$$

L'Hôpital's Rule for Limits · 13

ANSWER

$$\frac{2}{-5}$$

L'Hôpital's Rule for Limits · 16

ANSWER

$$\frac{3}{5}$$

L'Hôpital's Rule for Limits · 15

ANSWER

$$6$$

L'Hôpital's Rule for Limits · 17

Find the limit: $\lim_{x \to -4}$ of $\dfrac{3x^2 + 15x + 12}{2x^2 + 13x + 20}$

L'Hôpital's Rule for Limits · 18

Find the limit: $\lim_{x \to 0}$ $\dfrac{\sin 4x}{e^{7x} - 1}$

L'Hôpital's Rule for Limits · 19

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

L'Hôpital's Rule for Limits · 20

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

L'Hôpital's Rule for Limits · 21

Find the limit: $\lim_{x \to 0}$ $\dfrac{e^{4x} - 1}{5x}$

L'Hôpital's Rule for Limits · 22

Find the limit: $\lim_{x \to \infty}$ $\dfrac{4e^x + 8}{3e^x + 9}$

L'Hôpital's Rule for Limits · 23

Find the limit: $\lim_{x \to 0}$ $\dfrac{\sin 7x}{4x}$

L'Hôpital's Rule for Limits · 24

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

L'Hôpital's Rule for Limits · 18

ANSWER

$$\frac{4}{7}$$

L'Hôpital's Rule for Limits · 17

ANSWER

$$3$$

L'Hôpital's Rule for Limits · 20

ANSWER

$$0$$

L'Hôpital's Rule for Limits · 19

ANSWER

$$1$$

L'Hôpital's Rule for Limits · 22

ANSWER

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

L'Hôpital's Rule for Limits · 21

ANSWER

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

L'Hôpital's Rule for Limits · 24

ANSWER

$$1$$

L'Hôpital's Rule for Limits · 23

ANSWER

$$\frac{7}{4}$$