Implicit Differentiation · 1

Find dy/dx for the circle $x^2 + y^2 = 9$.

Implicit Differentiation · 2

Find the slope of the circle $x^2 + y^2 = 100$ at the point (-8, 6).

Implicit Differentiation · 3

Find dy/dx for $xy = 29$.

Implicit Differentiation · 4

Find the slope of the curve $xy = -5$ at the point (5, -1).

Implicit Differentiation · 5

Find the slope of the circle $x^2 + y^2 = 169$ at the point (-12, -5).

Implicit Differentiation · 6

Find the slope of the circle $x^2 + y^2 = 169$ at the point (-5, -12).

Implicit Differentiation · 7

Find the slope of the circle $x^2 + y^2 = 25$ at the point (4, 3).

Implicit Differentiation · 8

Find dy/dx for $xy = 39$.

Implicit Differentiation · 2

ANSWER

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

Implicit Differentiation · 1

ANSWER

$$\frac{x}{-y}$$

Implicit Differentiation · 4

ANSWER

$$\frac{1}{5}$$

Implicit Differentiation · 3

ANSWER

$$\frac{y}{-x}$$

Implicit Differentiation · 6

ANSWER

$$\frac{5}{-12}$$

Implicit Differentiation · 5

ANSWER

$$\frac{12}{-5}$$

Implicit Differentiation · 8

ANSWER

$$\frac{y}{-x}$$

Implicit Differentiation · 7

ANSWER

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

Implicit Differentiation · 9

Find the slope of the circle $x^2 + y^2 = 25$ at the point (-3, -4).

Implicit Differentiation · 10

Find dy/dx for $x^2y = 11$.

Implicit Differentiation · 11

Find dy/dx for $9x^2 + 6y^2 = 135$.

Implicit Differentiation · 12

Find the slope of the curve $x^2y = 32$ at the point (-4, 2).

Implicit Differentiation · 13

Find the slope of the circle $x^2 + y^2 = 100$ at the point (-6, 8).

Implicit Differentiation · 14

Find the slope of the circle $x^2 + y^2 = 100$ at the point (8, 6).

Implicit Differentiation · 15

Find the slope of the curve $xy = -10$ at the point (2, -5).

Implicit Differentiation · 16

Find the slope of the circle $x^2 + y^2 = 100$ at the point (-8, -6).

Implicit Differentiation · 10

ANSWER

$$\frac{2y}{-x}$$

Implicit Differentiation · 9

ANSWER

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

Implicit Differentiation · 12

ANSWER

$$1$$

Implicit Differentiation · 11

ANSWER

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

Implicit Differentiation · 14

ANSWER

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

Implicit Differentiation · 13

ANSWER

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

Implicit Differentiation · 16

ANSWER

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

Implicit Differentiation · 15

ANSWER

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

Implicit Differentiation · 17

Find dy/dx for $2x^2 - 6y^2 = 12$.

Implicit Differentiation · 18

Find the slope of the curve $8x^2 - 6y^2 = -46$ at the point (1, -3).

Implicit Differentiation · 19

Find dy/dx for $y^2 = x^3 + 6x - 1$.

Implicit Differentiation · 20

Find the slope of the curve $xy^2 = 25$ at the point (1, -5).

Implicit Differentiation · 21

Find the slope of the circle $x^2 + y^2 = 289$ at the point (8, -15).

Implicit Differentiation · 22

Find the slope of the curve $8x^2 + 4y^2 = 108$ at the point (-3, -3).

Implicit Differentiation · 23

Find the slope of the circle $x^2 + y^2 = 841$ at the point (20, -21).

Implicit Differentiation · 24

Find the slope of the curve $x^2y = -96$ at the point (-4, -6).

Implicit Differentiation · 18

ANSWER

$$\frac{4}{-9}$$

Implicit Differentiation · 17

ANSWER

$$\frac{x}{3y}$$

Implicit Differentiation · 20

ANSWER

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

Implicit Differentiation · 19

ANSWER

$$\frac{3x^2 + 6}{2y}$$

Implicit Differentiation · 22

ANSWER

$$-2$$

Implicit Differentiation · 21

ANSWER

$$\frac{8}{15}$$

Implicit Differentiation · 24

ANSWER

$$-3$$

Implicit Differentiation · 23

ANSWER

$$\frac{20}{21}$$