Implicit Differentiation · 1

Find dy/dx for $2x^2 - y^2 = 9$.

Implicit Differentiation · 2

Find the slope of the curve $3x^2 - 4y^2 = 23$ at the point $(3, -1)$.

Implicit Differentiation · 3

Find dy/dx for $y^2 = x^3 - 4x + 3$.

Implicit Differentiation · 4

Find the slope of the curve $x^2y = 18$ at the point $(3, 2)$.

Implicit Differentiation · 5

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

Implicit Differentiation · 6

Find the slope of the curve $5x^2 - 3y^2 = 17$ at the point $(-2, 1)$.

Implicit Differentiation · 7

Find the slope of the curve $9x^2 + 2y^2 = 54$ at the point $(2, 3)$.

Implicit Differentiation · 8

Find the slope of the circle $x^2 + y^2 = 625$ at the point $(7, -24)$.

Implicit Differentiation · 2

ANSWER

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

Implicit Differentiation · 1

ANSWER

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

Implicit Differentiation · 4

ANSWER

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

Implicit Differentiation · 3

ANSWER

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

Implicit Differentiation · 6

ANSWER

$$\frac{10}{-3}$$

Implicit Differentiation · 5

ANSWER

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

Implicit Differentiation · 8

ANSWER

$$\frac{7}{24}$$

Implicit Differentiation · 7

ANSWER

$$-3$$

Implicit Differentiation · 9

Find the slope of the curve $x^2 - 4y^2 = -27$ at the point (-3, -3).

Implicit Differentiation · 10

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

Implicit Differentiation · 11

Find the slope of the curve $x^3 + y^3 = 9$ at the point (1, 2).

Implicit Differentiation · 12

Find the slope of the curve $-x^2 - 3xy = -27$ at the point (-3, -2).

Implicit Differentiation · 13

Find dy/dx for $y^2 = x^3 + x^2 + 5x - 4$.

Implicit Differentiation · 14

Find the slope of the curve $-xy + y^2 = 3$ at the point (-2, -3).

Implicit Differentiation · 15

Find the slope of the curve $-2x^2 - xy - 2y^2 = -8$ at the point (0, -2).

Implicit Differentiation · 16

Find the slope of the curve $x^3 + y^3 = 16$ at the point (2, 2).

Implicit Differentiation · 10

ANSWER

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

Implicit Differentiation · 9

ANSWER

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

Implicit Differentiation · 12

ANSWER

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

Implicit Differentiation · 11

ANSWER

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

Implicit Differentiation · 14

ANSWER

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

Implicit Differentiation · 13

ANSWER

$$\frac{3x^2 + 2x + 5}{2y}$$

Implicit Differentiation · 16

ANSWER

$$-1$$

Implicit Differentiation · 15

ANSWER

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

Implicit Differentiation · 17

Find the slope of the curve $9x^2 + 2y^2 = 44$ at the point (-2, 2).

Implicit Differentiation · 18

Find the slope of the curve $y^2 = x^3 - 5x + 16$ at the point (0, -4).

Implicit Differentiation · 19

Find the slope of the curve $x^3 + y^3 = 91$ at the point (4, 3).

Implicit Differentiation · 20

Find the slope of the curve $-2x^2 - 2xy - y^2 = -8$ at the point (2, 0).

Implicit Differentiation · 21

Find dy/dx for $x^2 + y^3 = 24$.

Implicit Differentiation · 22

Find the slope of the curve $-xy + 2y^2 = 6$ at the point (-1, -2).

Implicit Differentiation · 23

Find dy/dx for $x^2 + y^3 = 5$.

Implicit Differentiation · 24

Find the slope of the curve $x^3 + y^3 = 128$ at the point (4, 4).

Implicit Differentiation · 18

ANSWER

$$\frac{5}{8}$$

Implicit Differentiation · 17

ANSWER

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

Implicit Differentiation · 20

ANSWER

$$-2$$

Implicit Differentiation · 19

ANSWER

$$\frac{16}{-9}$$

Implicit Differentiation · 22

ANSWER

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

Implicit Differentiation · 21

ANSWER

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

Implicit Differentiation · 24

ANSWER

$$-1$$

Implicit Differentiation · 23

ANSWER

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