

1. [-/1 Points]

DETAILS

SCALCET9 3.5.002.

MY NOTES

ASK YOUR TEACHER

PRACTICE ANOTHER

Consider the following.

$$5x^6 + y^3 = 7x$$

(a) Find y' by implicit differentiation.

$y' =$

(b) Solve the equation explicitly for y and differentiate to get y' in terms of x .

$y' =$

(c) Check that your solutions to parts (a) and (b) are consistent by substituting the expression for y into your solution for part (a).

$y' =$

Need Help?

Read It

2. [-/1 Points]

DETAILS

SCALCET9 3.5.003.

MY NOTES

ASK YOUR TEACHER

PRACTICE ANOTHER

Consider the following.

$$\sqrt{x} + \sqrt{y} = 4$$

(a) Find y' by implicit differentiation.

$y' =$

(b) Solve the equation explicitly for y and differentiate to get y' in terms of x .

$y' =$

(c) Check that your solutions to parts (a) and (b) are consistent by substituting the expression for y into your solution for part (a).

$y' =$

Need Help?

Read It

3. [-/1 Points]

DETAILS

SCALCET9 3.5.004.

MY NOTES

ASK YOUR TEACHER

PRACTICE ANOTHER

Consider the following.

$$\frac{8}{x} - \frac{1}{y} = 9$$

(a) Find y' by implicit differentiation.

$y' =$

(b) Solve the equation explicitly for y and differentiate to get y' in terms of x .

$y' =$

(c) Check that your solutions to parts (a) and (b) are consistent by substituting the expression for y into your solution for part (a).

$y' =$

Need Help?

Read It

Watch It