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Due: Fri, Sep 25, 2020 05:00 PM CDT

Question 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

Description
 Due Friday Sept. 25, 2020 by 5pm.

1. Question Details LarCalcET7 3.5.008. [4101320]

Find dy/dx by implicit differentiation.
 $6x^3 + 7y^3 = 66$
 $dy/dx =$

2. Question Details LarCalcET7 3.5.010.MI. [4498898]

Find dy/dx by implicit differentiation.
 $9x^2y + 4y^2x = -5$
 $dy/dx =$

3. Question Details LarCalcET7 3.5.012. [4055760]

Find dy/dx by implicit differentiation.
 $\sqrt{xy} = x^5y + 18$
 $dy/dx =$

4. Question Details LarCalcET7 3.5.016. [4102133]

Find dy/dx by implicit differentiation.
 $9e^{xy} + 2x^2 - 4y^2 = 11$
 $\frac{dy}{dx} =$

5. Question Details LarCalcET7 3.5.021. [4056378]

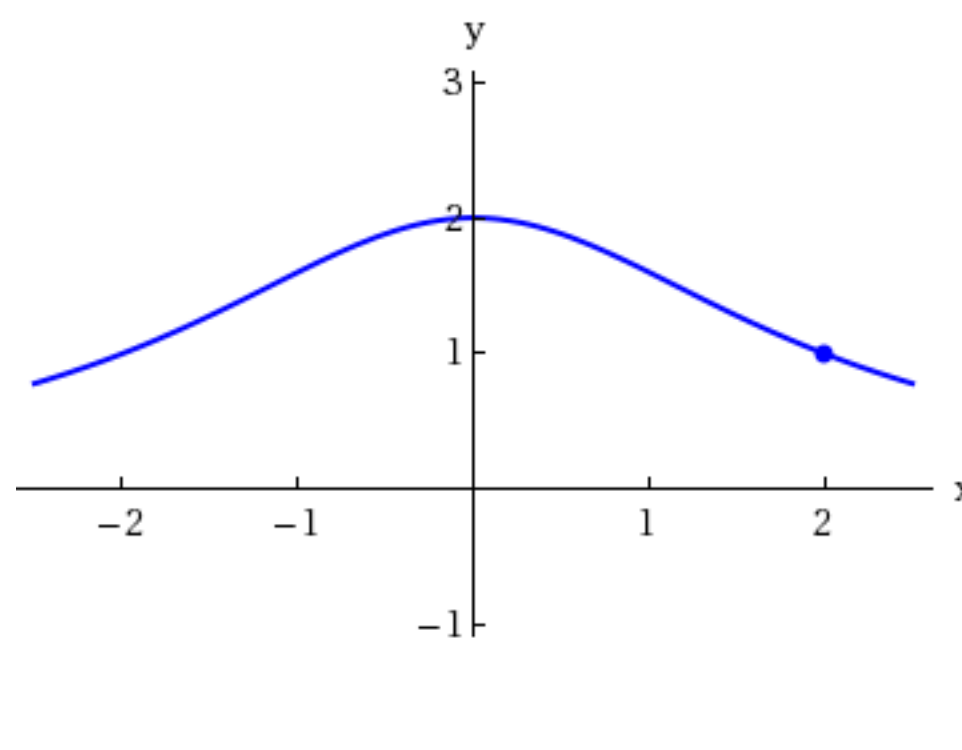
Find dy/dx by implicit differentiation.
 $y = \sin xy$
 $dy/dx =$

6. Question Details LarCalcET7 3.5.031. [4056989]

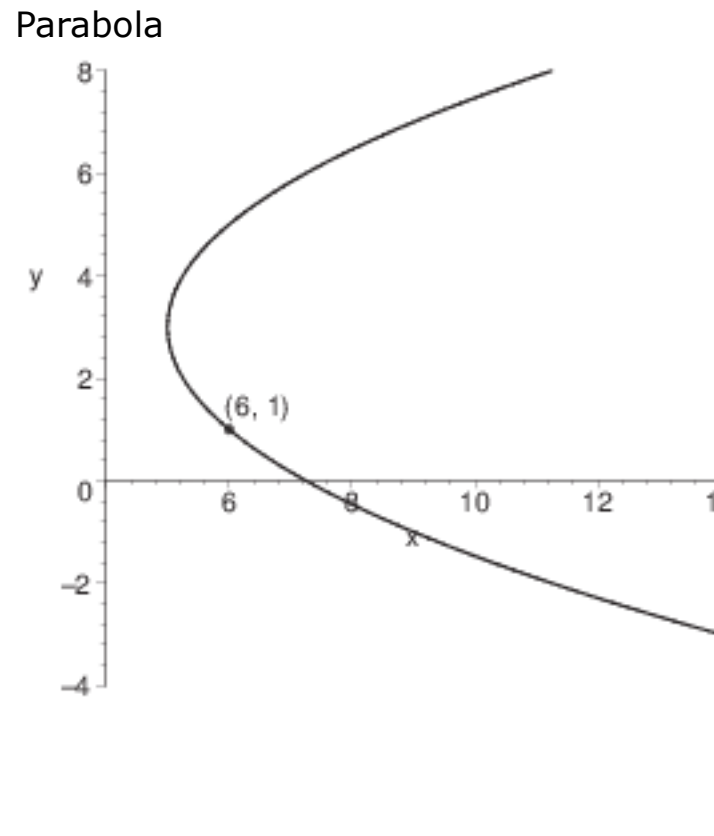
Find dy/dx by implicit differentiation. Then find the slope of the graph at the given point.
 $xy = 24, (-4, -6)$
 $\frac{dy}{dx} =$
 At $(-4, -6)$: $y' =$

7. Question Details LarCalcET7 3.5.039. [4056812]

Find the slope of the tangent line to the graph at the given point.
 $(x^2 + 4)y = 8, (2, 1)$

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8. Question Details LarCalcET7 3.5.043. [4056253]

Find an equation of the tangent line to the graph at the given point.
 $(y - 3)^2 = 4(x - 5), (6, 1)$
 $y =$
 Parabola


9. Question Details LarCalcET7 3.5.050. [4059279]

Use implicit differentiation to find an equation of the tangent line to the graph at the given point.
 $x^2 + xy + y^2 = 4, (2, 0)$
 $y(x) =$

10. Question Details LarCalcET7 3.5.055. [4057222]

Use implicit differentiation to find an equation of the tangent line to the ellipse at the given point.
 $\frac{x^2}{2} + \frac{y^2}{4} = 6, (2, -4)$
 $y =$

11. Question Details LarCalcET7 3.6.004. [4056783]

Use the function f and the given real number a to find $(f^{-1})'(a)$. (Hint: See Example 5. If an answer does not exist, enter DNE.)
 $f(x) = x^2 + 5x - 1, a = -7$
 $(f^{-1})'(-7) =$

12. Question Details LarCalcET7 3.6.006. [4059216]

Verify that f has an inverse function. Then use the function f and the given real number a to find $(f^{-1})'(a)$. (Hint: See Example 1. If an answer does not exist, enter DNE.)
 $f(x) = \frac{1}{8}(x^5 + 4x^3), a = -8$
 $(f^{-1})'(-8) =$

13. Question Details LarCalcET7 3.6.017. [4101424]

Find the derivative of the function.
 $f(x) = \arcsin(x - 2)$
 $f'(x) =$

14. Question Details LarCalcET7 3.6.020. [4056916]

Find the derivative of the function.
 $f(x) = \operatorname{arcsec}(5x)$
 $f'(x) =$

15. Question Details LarCalcET7 3.6.024. [4101284]

Find the derivative of the function.
 $g(x) = \frac{\arccos(x)}{x + 2}$
 $g'(x) =$

16. Question Details LarCalcET7 3.6.026. [4057045]

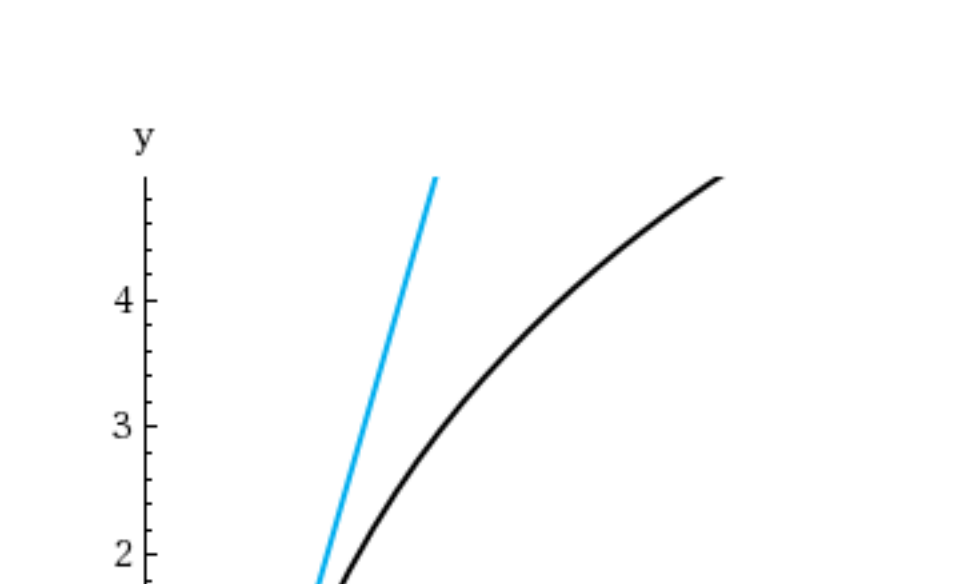
Find the derivative of the function.
 $h(x) = x^2 \arctan(7x)$
 $h'(x) =$

17. Question Details LarCalcET7 3.4.082.MI. [4102102]

Find the derivative of the logarithmic function.
 $f(x) = \ln\left(\frac{4x}{x + 7}\right)$
 $f'(x) =$

18. Question Details LarCalcET7 3.4.099.MI. [4059518]

Find the slope of the tangent line to the graph of the function at the given point.
 $y = \ln x^3$



19. Question Details LarCalcET7 3.4.134. [4101350]

Find the derivative of the function.
 $g(x) = 5^{-x}$
 $g'(x) =$

20. Question Details LarCalcET7 3.4.133. [4055983]

Find the derivative of the function.
 $f(x) = e^x$
 $f'(x) =$

21. Question Details LarCalcET7 3.4.136. [4101262]

Find the derivative of the function.
 $y = x(8^{-3x})$
 $y' =$

22. Question Details LarCalcET7 3.4.142. [4101362]

Find the derivative of the function.
 $y = \log_{10}(9x)$
 $y' =$

Assignment Details
 Name (AID): Homework 5 (17716040)
 Submissions Allowed: 5
 Category: Homework
 Code:
 Locked: Yes
 Author: Arrigo, Danny (darrigo@uca.edu)
 Last Saved: Sep 21, 2020 08:09 AM CDT
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