

Due: Fri, May 5, 2017 02:45 PM EDT

Question

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

1. Question Details

ABC TangLine V1 slope-int form mod1 [2644848]

Find the equation for the line tangent to the curve  $y = 3 + x^2$  at  $x = 2$ . Give your answer in *slope-intercept* form.

2. Question Details

ABC trig\_inverse arctan [2639320]

Find the exact value of:

(a)  $\arctan(0)$

(Enter your answer in radians.)

3. Question Details

ABC SPECIAL 3 - Q3 V1 [2694586]

Solve for  $t$ :

$$\frac{2t+3}{t} = -2.$$

$$t = \text{[input box]}$$

4. Question Details

ABC complete\_square V1 [2599922]

Rewrite by completing the square:

$$y^2 - 10y + 29 = \text{[input box]}.$$

5. Question Details

ABC SPECIAL 3 - Q5 v1 [2694587]

Find the exact value of:

$$\cos\left(\frac{\pi}{6}\right) = \text{[input box]}$$

6. Question Details

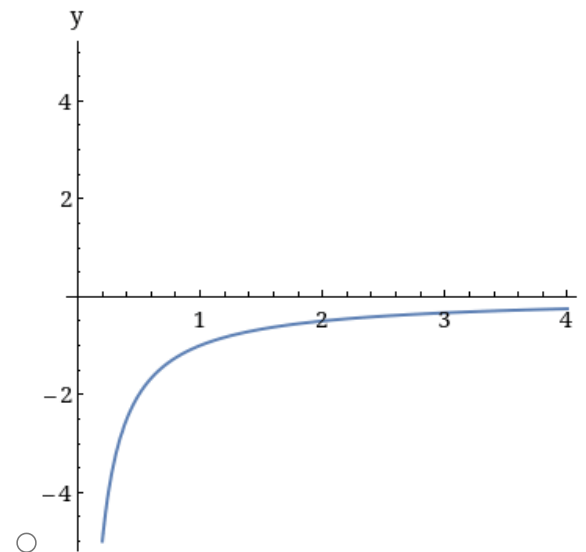
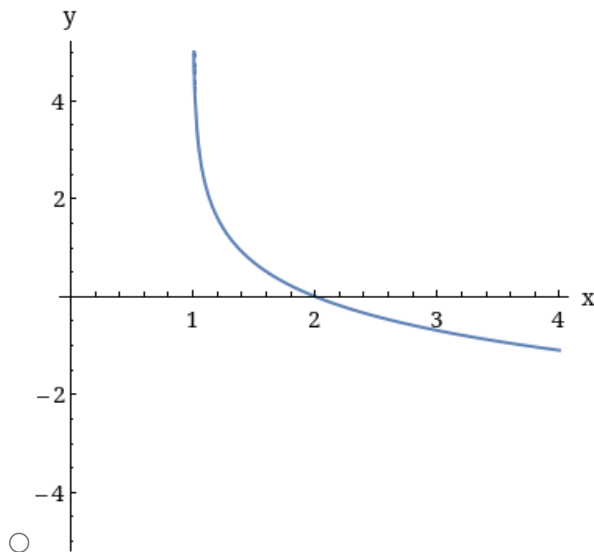
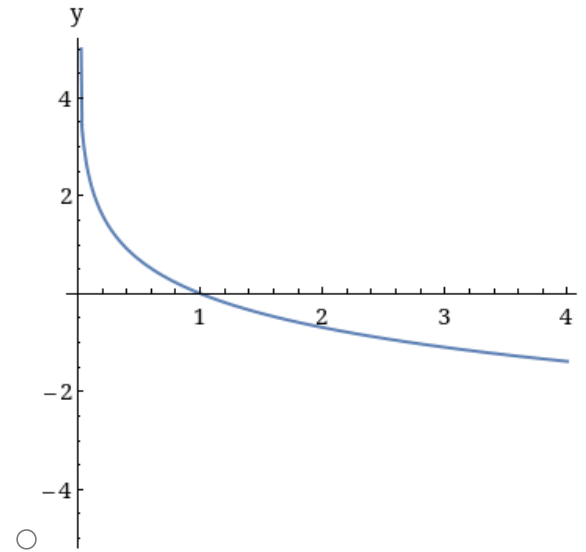
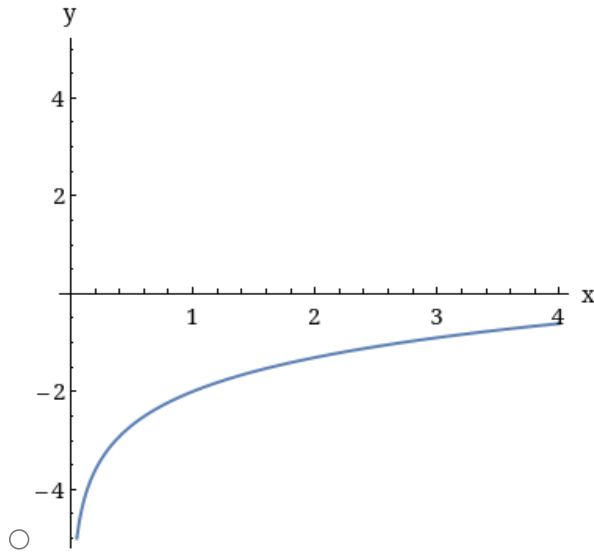
ABC explog/natural V1 Rev1 (med) [2654245]

Simplify as far as you can :

$$\ln(9e^3) - \ln(3e^2)$$

7. Question Details

ABC SPECIAL 2 Q7 [2690957]

Which graph shows the function  $y=f(x) = -\ln(x)$ 

8. Question Details

ABC SPECIAL 3 Q8 V1 [2694588]

Solve for  $t$  :

$$\log_{10}(t+2) = 0.$$

$$t = \text{[input box]}$$

9. Question Details

ABC SPECIAL Q9 V1 [2679364]

If  $f(t) = -2t^4 - 5t^2 - 7t - 10$ ,  
then find the derivative

$$f'(t) = \text{[input box]}$$

10. Question Details

ABC SPECIAL 3 Q10 V1 [2694589]

If  $f(t) = 2\sin(t)$ ,  
then find the derivative

$$f'(t) = \text{[input box]}$$

11. Question Details

ABC SPECIAL 3 Q11 V1 [2694590]

If  $y = 2e^{4x}$ ,  
then find the derivative

$$\frac{dy}{dx} = \text{[input box]}$$

12. Question Details

ABC SPECIAL 3 Q12 V1 [2694591]

If  $y = \ln(x^6)$ ,  
then find the derivative

$$\frac{dy}{dx} = \text{[input box]}$$

13. Question Details

ABC SPECIAL 3 Q13 V1 [2694592]

Find the derivative of  $f(x) = \sqrt{x}(3+e^x)$ .

$$f'(x) = \text{[input box]}$$

14. Question Details

ABC SPECIAL 3 Q14 V1 [2694593]

Find the derivative of  $f(x) = \frac{4-3x}{\sin x}$ .

$$f'(x) = \text{[input box]}$$

