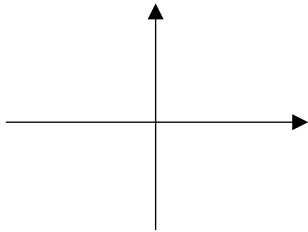


Name: _____ Class: _____

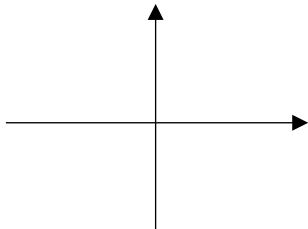
1. Write $\log_a b = c$ in index form.

2. Sketch the graph of $y = e^x$



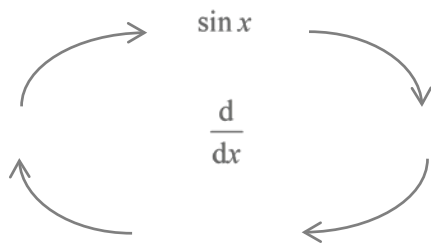
3. $\log_2 2 =$

4. Sketch the graph of $y = \ln x$



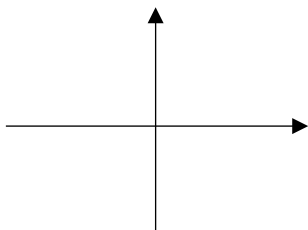
5. $\ln 1 =$

6.



7. $\log_a x + \log_a y =$

8. Sketch the graph of $y = \sin^{-1} x$.
Label the coordinates of endpoints.

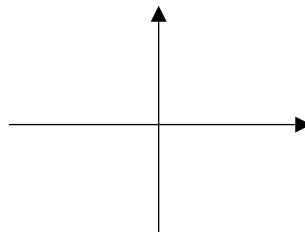


9. $\frac{d}{dx} \ln(3x - 5) =$

10. $\log_3 81 =$

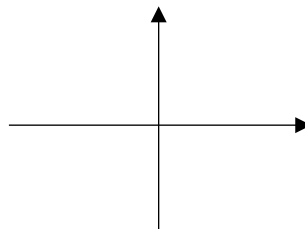
11. $\frac{d}{dx} e^{-3x+1} =$

12. Sketch the graph of $y = \frac{1}{x}$



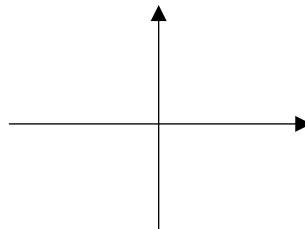
13. $\frac{d}{dx} \sqrt[3]{2x-3} =$

14. Sketch the graph of $y = \sqrt{x}$



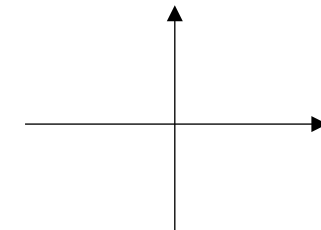
15. $\ln 0 =$

16. Sketch the graph of $y = (2x - 1)^2(5 - x)$



17. $\frac{d}{dx} \cos(5x - 7) =$

18. Sketch the graph of $y = \cos^{-1} x$.
Label the coordinates of endpoints.



19. Simplify $e^{3 \ln x}$

20. $\ln e =$

Marking Column

For each question, colour the circle for a correct answer.

Q	✓
1.	<input type="radio"/>
2.	<input type="radio"/>
3.	<input type="radio"/>
4.	<input type="radio"/>
5.	<input type="radio"/>
6.	<input type="radio"/>
7.	<input type="radio"/>
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18.	<input type="radio"/>
19.	<input type="radio"/>
20.	<input type="radio"/>
Score	
Time	