Calculus ABC Test II—Version 4493	Name:
Lecture section:	Student Number:
PUT ANSWERS IN BOXES. NO BOOKS/NOTES/C Simplify answers where possible. Include units where n	
1. Find the equation of the line between the points $(0, and (1, 2))$ in <i>point-slope</i> form.	1)
2. Find the value of:	
$\arcsin\left(-\frac{1}{2}\right)$	
3. Solve for x : $\frac{4}{3x} = \frac{5}{6} + \frac{1}{2x}$	
4. Rewrite by completing the square: $x^2 - 4x$	
5. Find the value of:	
$\arcsin\left(0\right)$	
6. Simplify as far as you can:	
$\ln(e^8)$	
7. Graph the function $y = e^x$. Label with the following values (if applicable): each integer, location of each asymptote, and (x, y) coordinates of each min and max. Also include the coordinates one other point.	es
8. Solve for y :	
$\log(y^2 - y - 2) = 1$	
9. If $f(t) = 4t^3 + 2t^2 + 8t - 3$, find $f'(t)$.	

10. If $g(x) =$	$x^{4/5}$, find $g'(x)$.	
11. If $f(x) =$	$\tan(e^x)$, find $f'(x)$.	
12. If $g(\theta) =$	$\sin(\theta^2 + \theta)$, find $g'(\theta)$.	
13. Find the	derivative of	
	$g(x) = x\cos(x)$	
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14. Find the	derivative of	
	$f(x) = \frac{x^2}{\cos(x)}$	
15. Find the	derivative of	
	$w(s) = \frac{3+s^2}{2+s}$	
16. Find a fu	unction $f(x)$ whose derivative is:	
	$f'(x) = 5\sqrt{x} + 5$	
	$f(x) = 3\sqrt{x+3}$	
17. Evaluate	the indefinite integral:	
	f = 2	
	$\int \frac{2}{2r+1} dr$	
18. Evaluate	the indefinite integral:	
	$\int x \sin(x^2 + 1) dx$	
	$\int x \sin(x + 1) dx$	
19. Evaluate	the definite integral:	
	\int_{-2}^{2}	
	$\int_{1}^{2} t^{2} dt$	
20. Evaluate	the definite integral:	
	$\int_{-2}^{-2} 1_{1}$	
	$\int_{-3}^{-2} \frac{1}{t^2} dt$	