Calculus	ABC	Test	II—	Version	9160

Lecture section:

Student Number: _____

PUT ANSWERS IN BOXES. NO BOOKS/NOTES/CALCULATORS. DO YOUR OWN WORK. Simplify answers where possible. Include units where needed. All angles are in radians. $\log = \log_{10}$.

1. Find the equation of the line between the points (1,-2) and (4,6) in *point-slope* form.



2. Find the value of:

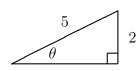
$$\arctan\left(-\sqrt{3}\right)$$

3. Solve for y:

$$y^2 + 2y - 2 = 0$$

- 4. Rewrite by completing the square: $x^2 + 3x$

5. Find the value of $cos(\theta)$:

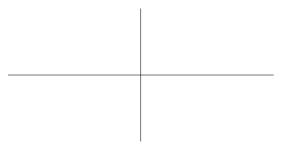


6. Simplify as far as you can:

$$e^{-\ln 5 + 2\ln 3}$$

7. Graph the function $y = e^x$.

Label with the following values (if applicable): each intercept, location of each asymptote, and (x, y) coordinates of each min and max. Also include the coordinates of one other point.



8. Simplify:

$$(-32)^{2/5}$$

9. If $f(t) = 2t^5 - 3t^4 + 6t - 2$, find f'(t).