# Assignment #2 – Question #1(c): Integrals assigned to students

Note the following Java constants/methods are in the Math class:

Math.PI value of π

Math.E value of *e*, the base of the exponential function

Math.sqrt(*value*) square root of *value*

Math.pow(*a*, *b*) *ab* (*a* raised to the power of *b*)

Math.exp(*value*) *evalue* (special constant *e* raised to the power of *value*)

Math.log(*value*)/Math.log(2) base-2 logarithm of *value*, log2(*value*)

Math.sin(*value*) geo-trig function for sine of angle *value*

Math.cos(*value*) geo-trig function for cosine of angle *value*

Math.tan(*value*) geo-trig function for tangent of angle *value*

Also note that the function defines the standard normal curve. The area under the normal curve (its integral) is thus the standard normal probability distribution used in statistics. Note that the exponent for *e* in the function is -(*x*2)/2, so that is the expression that you can plug into Math.exp().

| **Student Name** | **Integral assigned for #1(c)** |
| --- | --- |
| Blayze H. |  |
| Connor T. |  |
| David W. |  |
| Henry T. |  |
| Jaydeep P. |  |
| Liam W. |  |
| Tracy H. |  |
| Nathan U. |  |
| Nikhil P. |  |
| Prakher S. |  |
| Scott H. |  |
| Stevan C. |  |
| Trystan H. |  |