

## 7.1 Worksheet A | Areas of Regions Between Two Curves

Write an expression representing the area of the region bounded by the functions. Calculate the area rounded to three decimal places.

□1.  $f(x) = x^3 - 5x$  and  $g(x) = 0.3x + 1$

□2.  $f(x) = 3 - 4x^2 - x^3$  and  $g(x) = e^x$

□3.  $f(x) = x^4 - 2x^3 - x^2 + 3x + 1$  and  $g(x) = x + 1$

□4. Find the area of the region in the first quadrant bounded by the functions  $f(x) = 9 - x^2$  and  $g(x) = 2^x + 1$ .

