

(6.1) Area between Two Curves

Full Name: _____

1. Sketch the region enclosed by the graphs of the given equations. Then, use a definite integral to find the exact value of the area of the region.

(a) 1

(b) $\frac{\sqrt{3}}{2}$

(c) $\frac{\pi}{12}$

(d) $2 - e$

(e) $\frac{1}{3}$

(f) $\frac{32}{3}$

(g) $\frac{81}{2}$

(h) $\frac{32}{3}$