Math 3B — Week 2

Areas between curves Compute the areas of the regions bounded by	
(a) $y = x$ and $y = x^2$.	(d) $f(x) = x(x+3)(x-3)$ and $g(x) = 0$.
(b) $y = 2x^2 + 10$, $y = 4x + 16$, $x = -2$, and $x = 5$.	(e) $f(x) = x$, $g(x) = 2x$, and $h(x) = 5 - x$.
(c) $y = x, y = \sin(x), x = 0, \text{ and } x = \pi.$	(f) $f(y) = \frac{1}{2}y^2 - 3$ and $g(x) = x - 1$.

