ANSWER KEY

- (1) $\frac{3\pi}{4}$
- (2) $\frac{5}{4}\sec(x^{4/5}) + C$
- (3) *e*
- (4) $ln(4) \frac{3}{4}$
- (5) R = 1
- (6) $\frac{217}{999}$
- (7) $\frac{576\pi}{7}$
- (8) $\frac{-\cos^3(1/x)}{x^2}$
- $(9) \ \frac{9}{2}\arcsin\left(\frac{x}{3}\right) \frac{1}{2}x\sqrt{9 x^2} + C$
- $(10) \ \pi \left(Rh^2 \frac{h^3}{3}\right)$