



Foundation Calculus and Mathematical Techniques (CELEN037)

Answers to Worksheet #9

1.

(i) $\frac{18\sqrt{3} - 2}{5}$

(ii) $\frac{9}{2}$

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

2.

(i) $\frac{64\pi}{3}$

(ii) $\frac{\pi^2}{2}$

(iii) $\frac{211\pi}{5}$

(iv) $\frac{32\pi}{5}$

(v) $\frac{\pi}{2}(e^2 - 1)$

3.

(i) $\frac{72\pi}{5}$

(ii) $\frac{\pi}{2}$

(iii) $\frac{3\pi}{10}$

4.

(i) 2.004

(ii) 17.333

5.

(i) 0.230

(ii) 17.354

(iii) 14.556