

Lesson S4, S5, S6

2. $\frac{22}{3}$

6. a) $\int_0^1 2\sqrt{x} - (-2\sqrt{x}) dx + \int_1^4 2\sqrt{x} - (2x-4) dx$
 $= 9$

b) $\int_{-2}^4 \frac{y}{2} + 2 - \frac{y^2}{4} dy = 9$

8. 4

10. $\pi - 2$

20. $\frac{37}{12}$

22. 8