

Answers

1. £30,000
2. 110 cm^3
3. (a) $2b(2b - 1)$ (b) $\frac{2b}{b+3}$
4. Mean = 20.5 cm, Standard deviation remains 3.2 cm
5. Proof
6. $x = 3.14$ and $x = -0.64$
7. $f = \frac{dh^2+3}{4}$
8. $7 \cdot 35 \times 10^6$ steps
9. Yes, the new area is 5.06m^2
10. 119.6cm^2
11. $x = 203.6^\circ$ and $x = 336.4^\circ$
12. (a) $x = r - 14$ (b) $r = 22.8\text{cm}$
13. HI = 23.3 cm
14. (a) $\overrightarrow{QS} = \mathbf{b} - \mathbf{a}$ (b) $\frac{7}{4}(\mathbf{a} - \mathbf{b})$
15. 239.5° (240° to the nearest degree)