

2.4 Answers (To 2.3 Homework)

Answer 1

- (i) Tick ☐ y is directly proportional to square root x
(ii) $\frac{3}{4}$
(iii) $y = 6$ (iv) Increase

Answer 2

- (i) Tick ☐ y is inversely proportional to square root x
(ii) $\frac{27}{2}$ or 13.5
(iii) $y = 4.5$ (iv) Decrease

Answer 3

$$y = \frac{4x^2}{5}$$

Answer 4

$$y = \frac{2}{3\sqrt{x}}$$

Answer 5

- (i) Tick ☐ y is directly proportional to a
 Tick ☐ y is directly proportional to b
 Tick ☐ y is directly proportional to $\sin C$
(ii) $\frac{1}{2}$
(iii) $y = 225$

Answer 6

- (i) Tick ☐ y is directly proportional to square of r
(ii) π
(iii) $A = 78.5$
(iv) $A = 6.16$
(v) $r = 5.64$

Answer 7

- (i) Tick ☐ T is directly proportional to D
 Tick ☐ T is inversely proportional to S
(ii) 1
(iii) $T = 0.100$
(iv) $S = 27.7$

Answer 8

- (i) 4.8 days (4 days 19 hours 12 minutes)
(ii) Inverse