Que. A]	Answers
(1)	$\frac{x^2}{2} + yx - \frac{y^2}{2} = c$
(2)	$x^3 - xy = c$
(3)	$\frac{x^3}{3} + yx + \frac{y^4}{4} = c$
(4)	$\frac{3x^4}{4} - yx + \frac{y^2}{2} = c$
(5)	$\frac{x^4}{4} + yx + \frac{y^3}{3} = c$
(6)	$x^4 - xy + \frac{y^3}{3} = c$
(7)	$\frac{5x^3}{3} + yx + \frac{y^4}{4} + c$
(8)	$x^5 - yx = 0$
(9)	$x^2y + y^3x + xy^3 = c$
(10)	$\frac{x^2}{2} - 2yx + 5x - \frac{y^2}{2} + y = c$
(11)	$\frac{x^2}{2} + yx - 2x - \frac{y^2}{2} + 4y = c$
(12)	$xy^2 + y^3 = c$
(13)	$x^2 - yx + \frac{y^2}{2} = c$

Que B]	Answers
(1)	$\frac{-x^3}{3y^3} + \log y = c$
(2)	$\log x + \frac{3y}{x} - \frac{y^2}{x^2} = c$
(3)	$\frac{x}{y} - 2\log x + 3\log y = c$
(4)	$\log x - \frac{x}{y} = c$
(5)	$\frac{y}{x} + \log y = c$
(6)	$\frac{x^4}{4} + \frac{x^2y^2}{2} + \frac{x^3}{3} = c$
(7)	$x - \frac{y^2}{x} - \frac{1}{x} = c$
(8)	$\frac{-x}{y} + 2y^2 = c$
(9)	$\frac{xy}{} + \frac{2x}{y^2} + y^2 = c$
(10)	$\frac{1}{2}\log x - \frac{xy}{2} - \frac{1}{2}\log y = c$
(11)	$\frac{3x^2y^2}{2} + \frac{4x^3}{3} = c$
(12)	$x^3y - \frac{x^2y^2}{2} = c$
(13)	$\frac{2}{3}\log x - \frac{1}{3}\log y - \frac{1}{xy} = c$
(14)	$\log x - \frac{y^4}{x^4} = c$

que. C] Answers

① $y \cdot x = \frac{x^7}{7} + c$

② $y \cdot x = \frac{x^5}{5} + c$

③ $\frac{y}{x} = \frac{x^4}{4} + c$

④ $\frac{y}{x} = \frac{x^7}{7} + c$

⑤ $y \cdot \sin x = x + c$

⑥ $y \cdot \sec x = \sin x + c$

⑦ $\frac{y}{x+1} = e^x + c$

⑧ $y(1+x^2) = \sin x + c$

⑨ $\frac{y}{x} = \frac{x^2}{2} + c$

que: (I) ① $I = \frac{16\pi}{1155}$

② $I = \frac{8\pi}{105}$

③ $I = \frac{2\pi}{15}$

④ $I = \frac{8\pi}{315}$

⑤ $I = \frac{16\pi}{315}$

⑥ $I = \frac{2\pi}{900g}$

⑦ $I = \frac{128\pi}{3465}$

que. D] Answers

① $\theta = 50^\circ C$

② $\theta = 40^\circ C$

③ $\theta = 30^\circ C$

que. E] Answers

① $x^2 + y^2 = c$

② $x^2 - y^2 = c$

③ $2x^2 + y^2 = c$

④ $-\log x = \log y + c$ or $\log c$

⑤ $\log x = \frac{1}{2}\log y + c$ or $\log c$

⑥ $\frac{-x^2}{2} = y^2 + c$

que. F]

① $i = 2(1 - e^{\frac{-25}{64}t})$

② $i = \frac{1}{2}(1 - e^{-10t})$

③ $i = 2(1 - e^{-t/3})$

que. G]

① show that question.

② $q = 30(1 - e^{-t/15})$

③ $q = 7(1 - e^{-t/12.5})$ OR $q = 7(1 - e^{-2t/5})$

que. H]

① $T = 83.96^\circ C$

② $T = 89.46^\circ C$

③ $T = 79.80^\circ C$

que. (I)

Que.(J) ① 10! ② 7! ③ $\frac{3}{4}\sqrt{\pi}$ ④ $\frac{15}{8}\sqrt{\pi}$ ⑤ $\frac{105}{16}\sqrt{\pi}$ ⑥ 4!

⑦ $\frac{3}{2}\sqrt{\pi}$ ⑧ 4 ⑨ $\frac{315}{16}\sqrt{\pi}$ ⑩ $\frac{315}{16}\sqrt{\pi}$ ⑪ 4 ⑫ $\frac{315}{16}\sqrt{\pi}$ ⑬ $\frac{1}{4}\sqrt{\frac{1}{4}}$

Que. (K) ① $\frac{1}{12}$ ② $\frac{16}{315}$ ③ $\frac{\pi}{16}$ ④ $\frac{5}{128}\pi$ ⑤ $\frac{3}{256}\pi$

⑥ $\frac{1}{51848}$ ⑦ $\frac{1}{40040}$ ⑧ $\frac{1}{302328}$