Most Repeated Questions in JEE Main Math from Area Bounded by Parabola or Circle & Line

- Q: The area of the region $\{(x, y) : x^2 + 4x + 2 \le y \le |x + 2|\}$ is equal to
- Q: Let the area of the region $\{(x, y): 2y \le x^2 + 3, y + x \le 3, y \ge |x 1|\}$ be A. Then 6A is equal to:
- Q: The area (in sq. units) of the region $\{(x, y): 0 \le y \le 2|x| +1, 0 \le y \le x^2 +1, |x| \le 3\}$ is
- Q: If the area of the larger portion bounded between the curves x2 + y2 = 25 and y = |x 1| is 1/4 ($b\pi + c$), $b, c \in \mathbb{N}$, then b + c is equal to
- Q: The area (in sq. units) of the region described by $\{(x, y) : y2 \le 2x, \text{ and } y \ge 4x 1\}$ is
- Q: Let α be the area of the larger region bounded by the curve y2 = 8x and the lines y = x and x = 2, which lies in the first quadrant. Then the value of 3α is equal to_____.
- Q: Let q be the maximum integral value of p in [0, 10] for which the roots of the equation are rational. Then the area of the region $\{(x, y) : 0 \le y \le (x q)2, 0 \le x \le q\}$ is
- Q: If the area of the region bounded by the curves y2 2y = -x, x + y = 0 is A, then 8A is equal to
- Q: Let the area of the region $\{(x, y) : |2x 1| \le y \le |x2 x|, 0 \le x \le 1\}$ be A. Then (6A + 11)2 is equal to__
- Q: The area bounded by the curves $y = |x^2 1|$ and y = 1 is
- Q: Let A1 = $\{(x, y) : |x| \le y2, |x| + 2y \le 8\}$ and A2 = $\{(x, y) : |x| + |y| \le k\}$. If 27 (Area A1) = 5 (Area A2), then k is equal to:
- Q: The area of the region given by $A = \{(x, y) : x2 \le y \le \min \{x + 2, 4 3x\}\}$ is:
- Q: The area bounded by the curve $y = |x^2 9|$ and the line y = 3 is: