

Answer Key to Trigonometric Identities & Equations

Level – 1	Daily Tutorial Sheet – 1 to 6
------------------	--------------------------------------

7.			24.		25.	26.	27.	28.	
(i) $x^4 - y^4 = b^2 - a^2$ (ii) $1 + \frac{2m}{n} = m^2$			$\frac{-\sqrt{2}}{1 + 2\sqrt{2}}$		ABC	A	C	D	
33.	34.		35.		36.				
B	$\theta = 2\ n\ \pi \pm \frac{\pi}{3}$ or $\theta = 2\ k\ \pi \pm \frac{\pi}{4}, n, k \in I$		$\theta = \frac{1}{p+q} \left[2n\pi \pm \frac{\pi}{2} \right], n \in I$		$\theta = 2n\pi$ or $\theta = \frac{2m\pi}{3} + \frac{\pi}{6}, n, m \in I$				
37.		38.			39.				
$0, \frac{\pi}{6}, \frac{\pi}{3}, \frac{2\pi}{3}, \frac{5\pi}{6}, \pi$		$x = n\pi + (-1)^n \frac{\pi}{4} - \frac{\pi}{4}, n \in I$			$x = n\pi \pm \frac{\pi}{4}, n \in I$ or $x = m\ \frac{\pi}{2} \pm \frac{\pi}{4}$				
40.		41.	42.	43.	44.	45.	46.	47.	
$x = 2n\pi \pm \frac{2\pi}{3}$ or $x = m\pi - \frac{\pi}{4}, n, m \in I$		B	C	B	C	D	C	AB	
48.	49.	50.	51.	52.	53.	54.	55.	56.	57.
A	B	BC	B	D	C	D	AC	C	C
58.	59.	60.	61.	62.	63.	64.	65.	66.	67.
BC	A	B	C	A	A	D	B	B	B
68.	69.	70.	71.	72.	73.	74.	75.	76.	77.
D	B	A	A	B	D	AD	D	B	B
78.	79.	80.	81.	82.	83.	84.	85.	86.	87.
D	A	B	A	D	A	B	C	B	C
88.			89.				90.		
D			ABCD				A		

Level – 2 & Numerical Value Type	Daily Tutorial Sheet – 7 to 12
---	---------------------------------------

91.	92.	95.	96.	97.	98.	99.	100.	101.	102.
C	B	B	A	B	D	C	AC	A	D
103.	104.	105.	106.	107.	108.	109.	110.	111.	112.
A	D	C	AC	D	B	AB	D	A	A
113.	114.	115.	116.	117.	118.	119.	120.	121.	122.
B	A	C	A	A	B	C	B	C	B
123.	124.	125.	126.	127.	128.	129.	130.	131.	132.
B	B	B	A	C	D	A	B	D	A
133.	134.	135.	136.	137.	138.	139.	140.	141.	142.
C	A	D	A	ABD	A	C	B	7	2
143.	144.	145.	146.	147.	148.	149.	150.	151.	152.
4	1	0	2	4	2	1	6	0	5
153.	154.	155.							
6	2	2							

JEE Main (Archive)	Daily Tutorial Sheet – 1 to 2
---------------------------	--------------------------------------

1	2	3	4	5	6	7	8	9	10
BC	AB	CD	ACD	3	8	7	3	C	C
11	12	13	14	15	16	17	18	19	20
AB	B	D	D	D	B	B	D	B	C

JEE Advanced (Archive)	Daily Tutorial Sheet – 1
-------------------------------	---------------------------------

1	2	3	4	5	6	7	8	9	10
B	B	C	C	D	D	C	A	C	A
11					D				