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## MATHS

## BOOKS - JEE MAINS PREVIOUS YEAR

## ENGLISH

## CIRCLES

## Others

1. The point diametrically opposite to the
point $P \quad(1,0)$ on the circle
$x^{2}+y^{2}+2 x+4 y-3=0$ is (1) $(3,-4)$
$(-3,4)(3)(-3,-4)(4)(3,4)$

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2. The circle $x^{2}+y^{2}=4 x+8 y+5$ intersects
the line $3 x 4 y=m$ at two distinct points if (1)
$35<m<15 \quad$ (2) $\quad 15<m<65$
$35<m<85(4) 85<m<35$

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3. The length of the diameter of the circle which touches the $x$-axis at the point $(1,0)$ and passes through the point $(2,3)$ is (1) $\frac{10}{3}$ (2) $\frac{3}{5}$ (3) $\frac{6}{5}$ (4) $\frac{5}{3}$

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4. The circle passing through (1, -2) and touching the axis of $x$ at $(3,0)$ also passes through the point
5. Let $C$ be the circle with centre at $(1,1)$ and radius $=1$. If T is the circle centred at $(0, y)$, passing through origin and touching the circle

C externally, then the radius of $T$ is equal to (1) $\frac{\sqrt{3}}{\sqrt{2}}$ (2) $\frac{\sqrt{3}}{2}$ (3) $\frac{1}{2}$ (3) $\frac{1}{4}$

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6. The number of common tangents to the circles

$$
x^{2}+y^{2}-4 x-6 y-12=0
$$

$x^{2}+y^{2}+6 x+18 y+26=0$, is : (1) 1 (2) 2
(3) $3(4) 4$

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