



## MATHS

### BOOKS - RESONANCE DPP ENGLISH

#### APPLICATION OF INTEGRALS

Others

1. The area of the region for which is  $\int_1^3 (3 - 2x - x^2) dx$

(b)  $\int_0^3 (3 - 2x - x^2) dx$        $\int_0^1 (3 - 2x - x^2) dx$       (d)

$\int_{-1}^3 (3 - 2x - x^2) dx$  '00'



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2. The area of the closed figure bounded by

$y = x, y = -x, y = -x$  and the tangent to the curve

$y = \sqrt{x^2 - 5}$  at the point  $(3, 2)$  is (A) 5 (B)  $\frac{15}{2}$  (C) 10 (D)  $\frac{35}{2}$

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3. about to only mathematics

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4.

Let

$$\frac{d}{dx} F(x) = \left( \frac{e^{\sin x}}{x} \right), x > 0 \text{ If } \int_1^4 \frac{3}{x} e^{\sin x^3} dx = F(k) - F(1),$$

then one of the possible values of  $k$ , is:

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