

تم تحميل هذا الملف من موقع المناهج الإماراتية



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* للحصول على أوراق عمل لجميع مواد الصف الثاني عشر المتقدم في مادة رياضيات الخاصة بـ الفصل الثالث اضغط هنا

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* لتحميل كتب جميع المواد في جميع الفصول للـ الصف الثاني عشر المتقدم اضغط هنا

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للتحدث إلى بوت المناهج على تلغرام: اضغط هنا

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Choose the right answer:

(1) $\int \frac{2}{4+x^2} dx$

a) $2 \tan^{-1}\left(\frac{x}{4}\right) + c$

b) $\tan^{-1}\left(\frac{x}{2}\right) + c$

c) $\frac{1}{2} \tan^{-1}\left(\frac{x}{2}\right) + c$

d) $2 \tan^{-1}\left(\frac{x}{2}\right) + c$

(2) $\int \frac{e^x}{9+e^x} dx$

a) $\tan^{-1}\left(\frac{e}{3}\right) + c$

b) $\frac{1}{3} \ln(9+e^x) + c$

c) $\ln(9+e^x) + c$

d) $9e^x + x + c$

(3) $\int \tan^2 3x dx$

a) $\frac{1}{3} \tan(3x) - x + c$

b) $\sec^2(3x) - 1 + c$

c) $\sec(3x) \tan(3x) + c$

d) $\tan(3x) - 3x + c$

(4) $\int 3 \cos^2(x) \sin(x) dx$

a) $-\frac{\cos^3(x)}{3} + c$

b) $-3 \cos^3(x) + c$

c) $-\cos(3x)^3 + c$

d) $-\cos^3(x) + c$

(5) $\int_{-\frac{\pi}{4}}^0 \sec x \tan x dx$

a) $1 - \sqrt{2}$

b) $\sqrt{2} - 1$

c) $1 + \sqrt{2}$

d) $\sqrt{2}$

(6) $\int_0^3 2x(x^2 + 1)^3 dx$

(a) $\frac{1001}{4}$

(b) $\frac{10000}{4}$

(c) $\frac{81}{4}$

(d) (c) $\frac{9999}{4}$

$$(7) \int x^2 \ln x \, dx$$

$$\text{a) } \frac{1}{3}x^3 \ln x - \frac{1}{9}x^3 + c$$

$$\text{b) } \frac{1}{3}x^3 \ln x - \frac{1}{6}x^3 + c$$

$$\text{c) } \frac{1}{3}x^3 \ln x - \frac{1}{9}x^2 + c$$

$$\text{d) } \frac{1}{3}x^3 \ln x - \frac{1}{6}x^2 + c$$

$$(8) \int \frac{3 \cos(\ln x)}{x} \, dx, \quad x > 0$$

$$\text{a) } 3 \sin(\ln x) + c$$

$$\text{b) } 3 \cos(\ln x) + c$$

$$\text{c) } 3 \sec(\ln x) + c$$

$$\text{d) } 3 \tan(\ln x) + c$$

(9) Determine the area of the region enclosed by:

$$y = x^2 - 9, \quad y = 3 - x$$

$$\text{(a) } \frac{343}{6}$$

$$\text{(b) } \frac{413}{6}$$

$$\text{(c) } \frac{301}{6}$$

$$\text{(d) } \frac{49}{6}$$

(10) Determine the area of the region enclosed by:

$$y = 2 - x^2, \quad y = x^2, \quad 0 \leq x \leq 2$$

(a) $\frac{28}{3}$

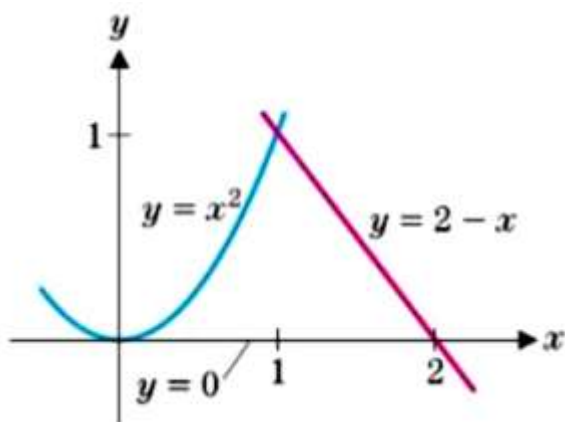
(b) $\frac{8}{3}$

(c) $\frac{4}{3}$

(d) 4

(11) Determine the area of the region enclosed by:

$$y = x^2, \quad y = 2 - x, \quad y = 0$$



a) $\frac{2}{3}$

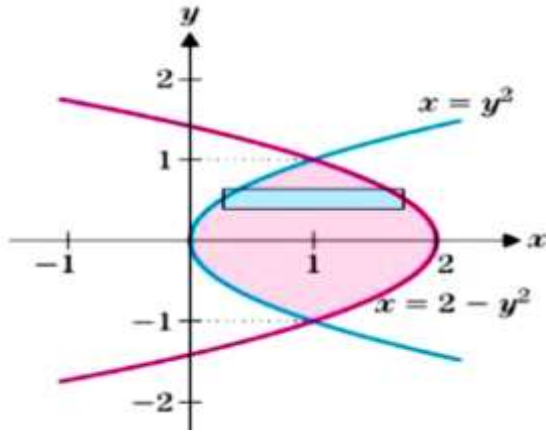
b) $\frac{7}{6}$

c) $\frac{5}{6}$

d) $\frac{11}{6}$

(12) Determine the area of the region enclosed by:

$$x = y^2, x = 2 - y^2$$



a) $\frac{2}{3}$

b) $\frac{8}{3}$

c) $\frac{10}{3}$

d) $\frac{4}{3}$

(13) Determine the area of the region enclosed by:

$$y = x^2, y = 2x$$

(a) $\frac{2}{3}$

(b) $\frac{4}{3}$

(c) $\frac{15}{2}$

(d) 8

(14) find the area of the region under the curve

$y = -x^2 + 4$, and up the x - axis

(a) $\frac{32}{3}$

(b) $\frac{16}{3}$

(c) $\frac{8}{3}$

(d) $\frac{64}{3}$

(15) Determine the area of the region enclosed by:

$y = x$, $y = x^2$

(a) $\frac{1}{6}$

(b) $\frac{1}{4}$

(c) $\frac{8}{3}$

(d) $\frac{2}{3}$

(16) Determine the area of the region enclosed by:

$$y = \sqrt{x} \text{ , } y = x$$

(a) $\frac{1}{6}$

(b) $\frac{7}{6}$

(c) $\frac{2}{5}$

(d) $\frac{2}{3}$

(17) find the volume of a region bounded by

$$y = \sqrt{x} \text{ , on } [0,4] \text{ revolving about } x - \text{axis}$$

(a) $\frac{16\pi}{3}$

(b) 16π

(c) 2π

(d) 8π

(18) find the volume of a region bounded by

$$y = 4 - x^2, \quad y = 0, \text{ revolving about } y = -3$$

(a) $\frac{448\pi}{15}$

(b) $\frac{736\pi}{15}$

(c) $\frac{1472\pi}{15}$

(d) $\frac{2944\pi}{15}$

(19)) find the volume of a region bounded by

$$y = 4 - x^2, \quad y = 0, \text{ revolving about } x = 3$$

(a) 64π

(b) 128π

(c) 32π

(d) 16π

(20) find the volume of a region bounded by

$$y = x^2, y = 0, -1 \leq x \leq 1$$

revolving about $x = 2$

(a) $\frac{16\pi}{3}$

(b) $\frac{8\pi}{3}$

(c) $\frac{2\pi}{3}$

(d) $\frac{4\pi}{3}$

(21) find the volume of a region bounded by

$$y = x, y = -x, \text{ revolving about } x = 1$$

(a) $\frac{16\pi}{3}$

(b) $\frac{8\pi}{3}$

(c) $\frac{2\pi}{3}$

(d) $\frac{4\pi}{3}$

(22) the height of the solid formed by revolving region bounded by

$$y = x, y = -x, x = 1, \text{ revolving about } y\text{-axis}$$

- (a) $2x$ (b) x (c) $2y$ (d) $1 - x$

(23) the radius of the solid formed by revolving region bounded by $y = x, y = -x$

revolving about $x = 2$

- (a) $2x$ (b) x (c) $2 - y$ (d) $2 - x$

(24) the volume of the solid formed by revolving region bounded by $y = 4 - x^2$, and the x -axis revolving about $x = 3$

a) $\int_{-2}^2 2\pi(3 - x)(4 - x^2)dx$ b) $\int_{-2}^2 2\pi(3 + x)(4 - x^2)dx$

c) $\int_0^4 2\pi(3 - x)(4 - x^2)dx$ d) $\int_0^4 2\pi(3 + x)(4 - x^2)dx$

(25) The length of the arc $f(x) = \sqrt{1 - x^2}$, $-1 \leq x \leq 1$

(a) $\frac{\pi}{2}$ (b) π (c) 2π (d) $\frac{2\pi}{3}$

(26) The length of the arc $f(x) = \frac{1}{3}x^{\frac{3}{2}} - x^{\frac{1}{2}}$, $1 \leq x \leq 4$

(a) $\frac{20}{3}$

(b) $\frac{10}{3}$

(c) $\frac{5}{3}$

(d) $\frac{256}{15}$

(27) The length of the arc $y = x^3$, $-2 \leq x \leq 2$

a) $\int_{-2}^2 \sqrt{1+9x^4} dx$

b) $\int_{-2}^2 \sqrt{1+9x^2} dx$

c) $\int_{-2}^2 \sqrt{1+3x^4} dx$

d) $\int_{-2}^2 \sqrt{1+3x^2} dx$

(28) the surface area of $y = x^4$, $0 \leq x \leq 1$
revolving about x – *axis* is

a) $\int_0^1 2\pi x^4 \sqrt{1+4x^3} dx$

b) $\int_0^1 2\pi x^4 \sqrt{1+16x^5} dx$

c) $\int_0^1 2\pi x^4 \sqrt{1+16x^6} dx$

d) $\int_0^1 2\pi x^4 \sqrt{1+4x^6} dx$

(29) the surface area of $y = \sqrt{x}$, $1 \leq x \leq 2$
revolving about x – *axis* is

a) $\int_1^2 2\pi \sqrt{x} \sqrt{1+\frac{1}{4x}} dx$

b) $\int_1^2 2\pi \sqrt{x} \sqrt{1+\frac{4}{x}} dx$

c) $\int_1^2 2\pi \sqrt{x} \sqrt{1+\frac{x}{4}} dx$

d) $\int_1^2 2\pi \sqrt{x} \sqrt{1+4x} dx$

(30) Identify the initial conditions $y(0)$ and $y'(0)$ for the vertical motion of an object, if the object is thrown downward at a velocity 6m/s from a height of 30m.

(a) $y(0) = 30, y'(0) = 6$

(b) $y(0) = 0, y'(0) = 6$

(c) $y(0) = 0, y'(0) = -6$

(d) $y(0) = 30, y'(0) = -6$

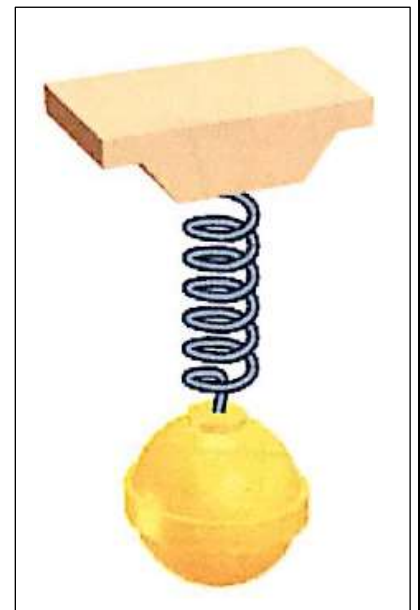
(31)) A force of **5 Newton** stretches a spring **4cm** from its natural length. find the work done in stretching the spring **6cm** beyond its natural

(a) $\frac{45}{2}$ n.m

(b) $\frac{9}{40}$ n. m

(c) $\frac{9}{4000}$ n. m

(d) 2250 n.m



(32) A diver drops from 9m above the water. what is the diver's velocity at impact?

(a) $-4.33m/s$

(b) $-9.39m/s$

(c) $-13.33m/s$

(d) $-18.39m/s$

(33) find the value of c for which $f(x) = cx + x^2$ is a probability density function on interval $[0,1]$

(a) $\frac{4}{3}$

(b) $\frac{2}{3}$

(c) $\frac{8}{3}$

(d) $\frac{1}{3}$

(34) find the value of c for which $f(x) = \frac{c}{1+x^2}$ is a probability density function on interval $[0,1]$

(a) 4π

(b) $\frac{\pi-4}{\pi}$

(c) $\frac{\pi}{4}$

(d) $\frac{4}{\pi}$

(35) suppose that the lifetime in years of brand of lightbulb is exponentially distributed with pdf $f(x) = 4e^{-4x}$. find the probability that given lightbulb lasts 3 months or less

((a) $1-e$

(b) $1-e^{-1}$

(c) $1+e$

(d) e

(36) *find the mean of the random variable with the given pdf* $f(x) = 3x^2$ on $[0, 1]$

(a) $\frac{3}{4}$

(b) 1

(c) $\frac{1}{2}$

(d) $\frac{1}{3}$

(37) *find the median of the random variable with the given pdf* $f(x) = 3x^2$ on $[0, 1]$

(a) $\frac{3}{8}$

(b) $\frac{1}{\sqrt[3]{2}}$

(c) $\frac{3}{2}$

(d) $\sqrt[3]{2}$

$$(38) \int \frac{5}{\sqrt{16-x^2}} dx$$

a) $5 \sin^{-1}\left(\frac{x}{4}\right) + c$

b) $\frac{5}{4} \sin^{-1}\left(\frac{x}{4}\right) + c$

c) $5 \sin^{-1}\left(\frac{x}{16}\right) + c$

d) $\sqrt{5} \sin^{-1}\left(\frac{x}{4}\right) + c$

$$(39) \int \frac{2}{4+4x^2} dx$$

a) $2 \tan^{-1}(x) + c$

b) $\frac{1}{2} \tan^{-1}(x) + c$

c) $\frac{1}{2} \tan^{-1}\left(\frac{x}{2}\right) + c$

d) $\tan^{-1}(x) + c$

$$(40) \int \frac{4}{49+x^2} dx$$

a) $\frac{2}{7} \tan^{-1}\left(\frac{x}{7}\right) + c$

b) $\frac{4}{7} \tan^{-1}(x) + c$

c) $\frac{4}{7} \tan^{-1}\left(\frac{2x}{7}\right) + c$

d) $\frac{4}{7} \tan^{-1}\left(\frac{x}{7}\right) + c$

$$(50) \int \frac{4}{5+2x+x^2} dx$$

$$\text{a) } \frac{2}{\sqrt{5}} \tan^{-1}\left(\frac{x}{\sqrt{5}}\right) + c$$

$$\text{b) } \tan^{-1}\left(\frac{x+1}{2}\right) + c$$

$$\text{c) } 2 \tan^{-1}\left(\frac{x+1}{2}\right) + c$$

$$\text{d) } \frac{4}{\sqrt{5}} \tan^{-1}\left(\frac{x}{\sqrt{5}}\right) + c$$

$$(51) \int \frac{x+1}{x^2+2x+4} dx$$

$$\text{(a) } 2 \ln|x^2 + 2x + 4| + c$$

$$\text{(b) } \frac{1}{2} \ln|x^2 + 2x + 4| + c$$

$$\text{(c) } \frac{1}{2} \tan^{-1}\left(\frac{x+1}{2}\right) + c$$

$$\text{(d) } \frac{1}{2} (x+1) \tan^{-1}\left(\frac{x+2}{2}\right) + c$$

$$(52) \int \frac{e^x}{\sqrt{1-e^{2x}}} dx$$

$$\text{a) } 2\sin^{-1}e^x + c$$

$$\text{b) } \sin^{-1}e^x + c$$

$$\text{c) } \frac{1}{2}\sin^{-1}e^x + c$$

$$\text{d) } \sin^{-1}e^{2x} + c$$

$$(53) \int x \ln x dx$$

$$\text{a) } x^2 \ln x - \frac{1}{2}x^2 + c$$

$$\text{b) } x \ln x - x + c$$

$$\text{c) } \frac{1}{2}x^2 \ln x - \frac{1}{4}x^2 + c$$

$$\text{d) } \frac{1}{2}x^2 \ln x - \frac{1}{2}x^2 + c$$

$$(54) \int \frac{3}{|x|\sqrt{x^2-25}} dx$$

$$\text{a) } \frac{3}{5}\sec^{-1}\left(\frac{x}{3}\right) + c$$

$$\text{b) } \frac{3}{5}\sec^{-1}\left(\frac{x}{25}\right) + c$$

$$\text{c) } \frac{3}{5}\sec^{-1}\left(\frac{x}{5}\right) + c$$

$$\text{d) } \frac{3}{25}\sec^{-1}\left(\frac{x}{25}\right) + c$$

$$(55) \int \frac{\sin \sqrt{x}}{\sqrt{x}} dx$$

$$a) -2 \cos \sqrt{x} + c$$

$$b) -\frac{1}{2} \cos \sqrt{x} + c$$

$$c) -2 \sin \sqrt{x} + c$$

$$d) 2 \cos \sqrt{x} + c$$

$$(56) \int_0^{\frac{\pi}{4}} \sec^2 x e^{\tan x} dx$$

$$a) e$$

$$b) e - 1$$

$$c) e + 1$$

$$d) 1 - e$$

$$(57) \int_{\frac{\pi}{4}}^{\frac{\pi}{2}} \csc^2 x dx$$

$$(a) 0$$

$$(b) -1$$

$$(c) 1$$

$$(d) \frac{\pi}{2}$$

$$(58) \int \frac{x^5}{1+x^6} dx$$

$$a) x^5 \tan^{-1}(x^3)$$

$$b) \ln(x+1) + c$$

$$c) \frac{7}{6} \frac{x^6}{x+x^7} + c$$

$$d) \frac{1}{6} \ln(1+x^6) + c$$

$$(59) \int \frac{\ln x^2}{x} dx$$

$$\text{a) } 2 \ln x + c$$

$$\text{b) } \frac{1}{2}(\ln x)^2 + c$$

$$\text{c) } \ln x^2 + c$$

$$\text{d) } (\ln x)^2 + c$$

$$(60) \int \frac{x}{\sqrt{1-x^4}} dx$$

$$\text{a) } \sin^{-1}(x^2) + c$$

$$\text{b) } \frac{1}{4} \sin^{-1}(x^2) + c$$

$$\text{c) } \frac{1}{2} \sin^{-1}(x^2) + c$$

$$\text{d) } \frac{1}{2} \sin^{-1}(x) + c$$

$$(61) \int e^{2 \ln x} dx$$

$$\text{a) } \frac{x^3}{3} + c$$

$$\text{b) } x^2 + c$$

$$\text{c) } \frac{x}{2} e^{2 \ln x} + c$$

$$\text{d) } e^{\ln x^2} + c$$

$$(62) \int \sec x \, dx$$

$$(a) \ln|\sec x + \tan x| + c$$

$$(b) \ln|\sec x \tan x| + c$$

$$(c) \frac{1}{\sin x} + c$$

$$(d) \csc x + c$$

$$(63) \int \tan 2x \, dx$$

$$(a) \frac{1}{2} \cot 2x + c$$

$$(b) \frac{-1}{2} \ln|\cos 2x| + c$$

$$(c) \frac{\sin 2x}{\cos 2x} + c$$

$$(d) -\cot x + c$$

$$(64) \int \sin^3 x \, dx$$

$$a) \frac{\cos^3 x}{3} - \cos x + c$$

$$b) \frac{\sin^4 x}{4} + c$$

$$c) -\frac{\cos^4 x}{4} + c$$

$$d) \frac{\cos^4 x}{4} - \cos x + c$$

$$(65) \int x e^{2x} dx$$

$$\text{a) } \frac{1}{2} x e^{2x} + \frac{1}{4} e^{2x} + c$$

$$\text{b) } \frac{1}{2} x e^{2x} - \frac{1}{4} e^{2x} + c$$

$$\text{c) } 2x e^{2x} - 4e^{2x} + c$$

$$\text{d) } \frac{1}{2} x e^{2x} - \frac{1}{2} e^{2x} + c$$

$$(64) \int x \ln x dx$$

$$\text{a) } \frac{1}{2} x^2 \ln x - \frac{1}{4} x^2 + c$$

$$\text{b) } \frac{1}{2} x^2 \ln x - \frac{1}{2} x^2 + c$$

$$\text{c) } \frac{1}{2} x^2 \ln x + c$$

$$\text{d) } x^2 \ln x - \frac{1}{4} x^2 + c$$

$$(65) \int x \sin x dx$$

$$\text{a) } -\frac{1}{2} x^2 \cos x + c$$

$$\text{b) } x \sin x + \cos x + c$$

$$\text{c) } -x \cos x + \sin x + c$$

$$\text{d) } -x \cos x - \sin x + c$$

$$(66) \int \cos \sqrt{x} dx$$

a) $2\sqrt{x} \sin \sqrt{x} - 2 \cos \sqrt{x} + c$ b) $2\sqrt{x} \sin \sqrt{x} + 2 \cos \sqrt{x} + c$

c) $2\sqrt{x} \cos \sqrt{x} - 2 \sin \sqrt{x} + c$ d) $-2\sqrt{x} \sin \sqrt{x} + \cos \sqrt{x} + c$

$$(67) \int e^{\sqrt{x}} dx$$

a) $2\sqrt{x}e^{\sqrt{x}} - 2e^{\sqrt{x}} + c$

b) $2\sqrt{x}e^{\sqrt{x}} + 2e^{\sqrt{x}} + c$

c) $2\sqrt{x}e^x - 2e^x + c$

d) $\frac{2}{\sqrt{x}}e^{\sqrt{x}} + c$

$$(68) \int \tan x \sec^3 x dx$$

a) $\frac{1}{3} \tan^3 x + c$

b) $\frac{1}{4} \sec^4 x + c$

c) $\frac{1}{4} \tan^4 x + \frac{1}{2} \tan^2 x + c$

d) $\frac{1}{3} \sec^3 x + c$

$$(69) \int \tan^4 x \sec^2 x \, dx$$

$$\text{a) } \frac{1}{5} \tan^5 x + \frac{1}{3} \sec^3 x + c$$

$$\text{b) } \frac{1}{7} \sec^7 x - \frac{1}{3} \sec^3 x + c$$

$$\text{c) } \frac{1}{5} \tan^5 x + c$$

$$\text{d) } \frac{1}{6} \tan^6 x + \frac{1}{5} \tan^5 x + c$$

$$(70) \int \cos^2(x+1) \, dx$$

$$\text{a) } \frac{1}{2}x + \frac{1}{4} \sin(x+1) + c$$

$$\text{b) } \frac{1}{2}x + \frac{1}{4} \sin 2(x+1) + c$$

$$\text{c) } \frac{1}{2}x + \frac{1}{2} \sin(x+1) + c$$

$$\text{d) } \frac{1}{2}x + \frac{1}{2} \sin 2(x+1) + c$$

$$(71) \int \frac{x-5}{x^2-1} \, dx$$

$$\text{a) } 3 \ln|x+1| + 2 \ln|x-1| + c$$

$$\text{b) } \ln|x^2-1| + c$$

$$\text{c) } 3 \ln|x+1| - 2 \ln|x-1| + c$$

$$\text{d) } 2 \ln|x+1| - 3 \ln|x-1| + c$$

$$(72) \int \frac{5x-2}{x^2-4} dx$$

- a) $3\ln|x+2|+2\ln|x-2|+c$ b) $3\ln|x+2|-2\ln|x-2|+c$
c) $3\ln|x-2|-2\ln|x+2|+c$ d) $2\ln|x+2|-3\ln|x-2|+c$

$$(73) \int \frac{6x}{x^2-x-2} dx$$

- a) $4\ln|x+2|+2\ln|x-1|+c$ b) $4\ln|x-2|+2\ln|x+1|+c$
c) $2\ln|x-2|+4\ln|x+1|+c$ d) $4\ln|x-2|-2\ln|x+1|+c$

$$(74) \int \frac{4x-5}{x^3-3x^2} dx$$

- a) $-\frac{7}{9}\ln|x|-\frac{5}{3}\frac{1}{x}+\frac{7}{9}\ln|x-3|+c$ b) $-\frac{7}{9}\ln|x|+\frac{7}{9}\ln|x-3|+c$
c) $-\frac{7}{9}\ln|x+3|+\frac{7}{9}\ln|x-3|+c$ d) $\ln|x^3-3x^2|+c$

$$(75) \int \frac{2x+3}{x^2+2x+1} dx$$

a) $2 \ln|x+1| - \ln|x-1| + c$

b) $\ln|x+1| - 2 \ln|x-1| + c$

c) $2 \ln|x+1| - \ln|x^2+1| + c$

d) $2 \ln|x+1| - \frac{1}{x+1} + c$

(76) Determine whether the differential equation is not separable.

$$(a) y' = (3x + 1) \cos y \quad (b) y' = (3x + y) \cos y$$

$$(c) y' = (3y + 1) \cos x \quad (d) y' = 2x \cos y - xy^3$$

(77) Find the general solution for the equation

$$y' = (x^2 + 1)y$$

$$(a) \ln|y| = \frac{x^3}{3} + x + c$$

$$(b) y = \frac{x^3}{3} + x + c$$

$$(a) y = ce^{\frac{x^3}{3} + x}$$

$$(d) y = e^{\frac{x^3}{3} + x} + c$$

(78) Find the general solution for the equation

$$y' = \frac{xy}{1+x^2}$$

(a) $y = c\sqrt{1+x^2}$

(b) $\ln|y| = \frac{1}{2}\ln|x^2+1| + c$

(c) $y = ce^{\tan^{-1}x}$

(d) $y = ce^{\tan^{-1}x} + c$

(79) Solve the IVP explicitly if possible.

$$y' = \frac{4y}{x+3}, \quad y(-2) = 1$$

$$(a) y = e^4(x+3)^4 \qquad (b) y = (x+3)^{\frac{1}{4}}$$

$$(c) y = 4\ln|x+3| \qquad (d) y = (x+3)^4$$

(80) suppose a bacterial culture initially has 400 cells. After 1 hour, the population has increased to 800.

quickly determine the population after 3 hours

- (a)2400 (b)3200 (c)1600 (d)2800

(81) A bowl of porridge at 93°C is placed in a 21°C room . one minute later the porridge has cooled to 82°C .when will the temperature be 49°C .

- (a)4 (b)6 (c)7 (d)10

(82) Suppose that the value of a 400000AED asset decrease at a constant percentage 40%. find its worth after 5 years .

(a)327492 (b)54134 (c)268128 (d)240000