

6. $24_{A\hat{O}} + 2 = x_{A\hat{O}} B b m \bar{O} x s \hat{a} h n e s b \hat{r} \text{ \textcircled{R}}$ 1/2

(31, 30, 26, 32)

D⁻ cw

7. $\frac{2}{x-1} t \setminus m S v F \hat{r} p l q \ll n b m \bar{O} \frac{x^2 + 2x + 1}{x^2 - 1} l \text{ \textcircled{R} p w ?}$ 1/2

$$\left[\frac{1}{x-1}, \frac{-1}{x-1}, 1, \frac{-1}{x^2-1} \right]$$

D⁻ cw

8. $\log a = x B b m \bar{O}, X m s g s l m S p \hat{r} \text{ \textcircled{R} p \hat{A} h b n \bar{O} G X m W v 2 x \setminus v X p e y a m b r \text{ \textcircled{R} p \hat{A} X p}$ 1/2

[log 2a, (log a)², log (a / 2), log a²]

D⁻ cw

9. $2x^3 - 4x^2 + 10x - k \omega (x-1) s l m i \hat{r} v l c n \hat{r} t \text{ \textcircled{R} m \hat{A} i n j \text{ \textcircled{R} w } q P y w l \text{ \textcircled{R} n k b p s S}$ 1/2

h n e s b \hat{r} \text{ \textcircled{R}}

D⁻ cw

10. $\frac{2x-1}{x-1} = a + \frac{1}{x-1} B b m \bar{O} a b p s S h n e s b \hat{r} \text{ \textcircled{R}}$ 1/2

[-2, 2, 1, -1]

D⁻ cw

(11 apX\bar{O} 14 hscbp\hat{A} tNmZyS f n \bar{O} Hmtcm\acute{O} n\text{ \textcircled{R} w } A t l m f \hat{r} n s e C \setminus \hat{r} n \setminus v t b m P n \hat{r} p \acute{O} i c n b m b D \hat{r} c w B t l m f \hat{r} n \bar{O} \setminus n \acute{O} p w s X c s ^ a S p \hat{r} v t N m Z y \setminus \frac{1}{4} \hat{A} k q N r \text{ \textcircled{R} i \hat{r} t i j w F g p X p l)

കോളം A

കോളം B

11. $n-mw] Z w 3 x (\frac{1}{2})^{2-n} B b H c p$ 1/2

G.P. bpsS c i \text{ \textcircled{R} m w }] Z w

9

D⁻ cw

12. Hcp Znam\k ahmI y⁻ nsâ
aqeyKW⁻ ise]camh[n
AWKŞ fpsS F ®w 8 ½

D⁻ cw

13. $x^2 - 6x + m = 0$ sâ
aqeyKW⁻ ise AWKŞ Ä
hyXyk X]qÄ®k wJyl fmsW; nð
m sâ Gâhpw I qSnb hne 6 ½

D⁻ cw

14. $f = \{ (1, -2), (3, 9), (-1, 4) \}$ x = 3
B I pt¼mÄ f sâ hne 3 ½
2
1
0

D⁻ cw

(15 apXð 20 hscbpÄ tNmZyŞ fñð hñ«ññ; pó `mKw]qcn, n; m³ A \ptbm
Pyambh I i p] nññ v tNmZy\¼Ä k qNñ, nñ ti j w FgpXpl)

15. Hcp I ¼yq«dñsâ sa½dnbpsS hen, w k m[mcWbmbn ð B Wv k qNñ, n; pI .½

D⁻ cw

16. Hcp G.P. bpsS Hcp]Zw B I m⁻ tcJob k wJy B Wv ½

D⁻ cw

17. I ¼yq«dpt fpsS B ^ cñl [] hÄ⁻ \Ş Ä; v ss_ \dn k {¼ZmbwD] tñmKñ; m³
\nÄt±i nñ [] i k X I wtKdnb³ KWñX i mk {XÜ \mWv..... ½

D⁻ cw

18. $f = \{ (1, 2), (2, -1), (3, 1) \}$ CXnsâ aWvUew B Wv ½

D⁻ cw

19. 101_{cí} v \v k am\amb Uo\dn \yqadð B Wv ½

D⁻ cw

20. $x^2 + 10x + 25 = 0$ F ó k ahmI y⁻ nsâ aqeyKWw B Wv ½

D⁻ cw

(21. $\int_0^1 (x^2 + 1) dx$ - $\int_0^1 x^2 dx + \int_0^1 1 dx = \frac{x^3}{3} + x \Big|_0^1 = \frac{1}{3} + 1 = \frac{4}{3}$)

21. $\int_0^1 (x^2 + 1) dx = \frac{4}{3}$ 1

D^- cw

22. $R = \{(x, y) \mid x, y \in \mathbb{R}, x^2 + y^2 = 5\}$ $Cu \int_0^{2\pi} \int_0^{\sqrt{5}} r dr d\theta$ $\int_0^{2\pi} \frac{r^2}{2} \Big|_0^{\sqrt{5}} d\theta = \frac{5}{2} \int_0^{2\pi} d\theta = 5\pi$ 1

D^- cw

23. $\int_0^1 0.2124 dx = 0.2124$ 1

D^- cw

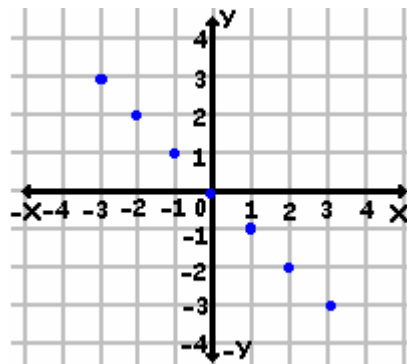
24. $\int_0^1 349 dx = 349$ 1

D^- cw

25. $\int_0^1 (x+1)(x+3) dx = \int_0^1 (x^2 + 4x + 3) dx = \frac{x^3}{3} + 2x^2 + 3x \Big|_0^1 = \frac{1}{3} + 2 + 3 = \frac{16}{3}$ 1½

D^- cw

26. $\int_{-3}^3 x^2 dx = \frac{x^3}{3} \Big|_{-3}^3 = \frac{27}{3} - \frac{-27}{3} = 18$ 1½



D^- cw

27. $\int_0^1 625 dx = 625$ 1½

D^- cw

28. $V = l \cdot b \cdot h = 39.5 \cdot 19.9 \cdot 17.3$ 1½

D^- cw

29. $aqeyKWw \{ 3 + 1, 3 - 1 \}$ B bn hcpó Zmam \ k ahml yw AXísâ k mam\ycq]-
- nð I mWpI . 2

D⁻ cw

30. 150 \pw 450 \pw CSbq pÅ 11 sl mi v \nti j w I cñj mhpó Xpamb F ñm
] qÅ®k wJyI fpsSbpw XpI I Wj mj pI . 2

D⁻ cw

31. eL qI cñj pI 2

$$\frac{x}{x-y} - \frac{y}{x+y} + \frac{2xy}{x^2-y^2}$$

D⁻ cw

32. $P(x) = x^3 - ax^2 + 9x + b$. P(x) sâ Hcp L Sl amWv(x - 1). P(x) om (x - 2)
sl mi v I cñj t, mÄ i nj ðw 1 I ncpó p a, b Ch I mWpI . 2

D⁻ cw

33. eL qI cñj pI : 2

$$\frac{x^2 + 6x + 9}{x^2 - 9} \cdot x \frac{x^2 - 4x + 3}{x^2 - 1} \frac{x + 3}{x^2 + x}$$

D⁻ cw

34.] qÅ®ambn L Sl S fmj pI $x^3 + 3x^2 - x - 3$. 2

D⁻ cw

35. $f(x) = 2(x - 1)^2 + 3$. F(1), f(0), f(-1) Ch I i p-] nSn'v

$$\frac{f(-1) - f(0)}{f(1)} \text{ I Wj mj pI } 2$$

D⁻ cw

36. Hcp ss] , nsâ _ ml yhpw B ^ chpw B b B cS Ä bYm(I aw 13.89 sk .ao.
12.65 sk .ao. B Wv AXísâ \ ofw 48.35 sk .ao. B bmð hym] v Xw temKcIXw D]-
tbmKn'v I Wj mj pI 2½

D⁻ cw

37. Hcp k a`pP{XntI mWw hcbij pÓp. AXnsâ hi § fpsS a[y_ nupj Å tbmPit
 n'v aqÓmsamcp {XntI mWw hcbij pÓp. C§ s\ Di mb ci mas {XntI mWw
 nsâ hi § fpsS a[y_ nupj Å tbmPit n'v aqÓmasXmcp {XntI mWw \nA½nj p-
 Óp. C- c- nõ A õ mas {XntI mWw }qÅ- nbml pw hsc Cu {l nb XpScpÓp.
 Chbnõ Gâhpw DÅ nepÅ {XntI mW- nsâ Hcp hi w 2.5 sk an. B bmõ, Cu
 A õ p {XntI mWS fpsS NpáfhpI fpsS Xpl t{] m{Kj ³ D] tbmKn'vI mVpI .

2½

D- cw

38. 20 aoäÅ \ofhpw 17 aoäÅ hoXtbpapÅ NXpcml rXnbmb Hcp tXm«- n\N Npâpw
 shfnbnembn \nÝ nX hoXnbñõ Hcp]mXbpi v]mXbpsS hnk Xoa®w 78 N.aoäÅ
 B bmõ]mXbpsS hoXn, Hcp Znam\ k ahml yw cq] ol cn'vI mVpI . 3

D- cw

39. Hómw]Zw 5 Dw s]mXphyXymk w 2 Dw B b Hcp A.P. bpsS B Zys-]{ ' i p]-
 Z§ Ä {] nâp sNç pÓXr\pÅ ^t fmNmÅ«v Xç mdmj pI . 3

D- cw

40. {Km^v hc''v \nA² mcWw sNç pI x² + 2x = 0. 4

(Xó ncpÅ {Km^v \nA² mcWw t] Å D] tbmKnj Ww. -4 apXõ +4 hscbpÅ
 tcJ ob k wJ ymKWW aWUeambn F Spj pI .)

D- cw



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