

HKDSE MATH Core Sample Paper II

1. HKDSE MATH Core Sample Paper II Q1

$$(3a)^2 \cdot a^3 =$$

- A. $3a^5$.
- B. $6a^6$.
- C. $9a^5$.
- D. $9a^6$.

2. HKDSE MATH Core Sample Paper II Q2

If $5 - 3m = 2n$, then $m =$

- A. n .
- B. $\frac{2n - 5}{3}$.
- C. $\frac{-2n + 5}{3}$.
- D. $\frac{-2n + 15}{3}$.

3. HKDSE MATH Core Sample Paper II Q3

$$a^2 - b^2 + 2b - 1 =$$

- A. $(a - b - 1)(a + b - 1)$
- B. $(a - b - 1)(a + b + 1)$
- C. $(a - b + 1)(a + b - 1)$
- D. $(a - b + 1)(a - b - 1)$

4. HKDSE MATH Core Sample Paper II Q4

Let p and q be constants. If $x^2 + p(x + 5) + q \equiv (x - 2)(x + 5)$, then $q =$

- A. -25 .
- B. -10 .
- C. 3 .
- D. 5 .

5. HKDSE MATH Core Sample Paper II Q5

Let $f(x) = x^3 + 2x^2 - 7x + 3$. When $f(x)$ is divided by $x + 2$, the remainder is

- A. 3 .
- B. 5 .
- C. 17 .

D. 33.

6. HKDSE MATH Core Sample Paper II Q6

Let a be a constant. Solve the equation $(x - a)(x - a - 1) = (x - a)$.

A. $x = a + 1$

B. $x = a + 2$

C. $x = a$ or $x = a + 1$

D. $x = a$ or $x = a + 2$

7. HKDSE MATH Core Sample Paper II Q7

Find the range of values of k such that the quadratic equation $x^2 - 6x = 2 - k$ has no real roots.

A. $k < -7$

B. $k > -7$

C. $k < 11$

D. $k > 11$

8. HKDSE MATH Core Sample Paper II Q8

I.

II.

III. A.

B.

C.

D.

9. HKDSE MATH Core Sample Paper II Q9

A.

B.

C.

D.

10. HKDSE MATH Core Sample Paper II Q10

A.

B.

C.

D.

11. HKDSE MATH Core Sample Paper II Q11

A.

B.

C.

D.

12. HKDSE MATH Core Sample Paper II Q12

A.

B.

C.

D.

13. HKDSE MATH Core Sample Paper II Q13

A.

B.

C.

D.

14. HKDSE MATH Core Sample Paper II Q14

A.

B.

C.

D.

15. HKDSE MATH Core Sample Paper II Q15

A.

B.

C.

D.

16. HKDSE MATH Core Sample Paper II Q16

- A.
- B.
- C.
- D.

17. HKDSE MATH Core Sample Paper II Q17

- A.
- B.
- C.
- D.

18. HKDSE MATH Core Sample Paper II Q18

- A.
- B.
- C.
- D.

19. HKDSE MATH Core Sample Paper II Q19

- A.
- B.
- C.
- D.

20. HKDSE MATH Core Sample Paper II Q20

- A.
- B.
- C.
- D.

21. HKDSE MATH Core Sample Paper II Q21

- A.
- B.
- C.
- D.

22. HKDSE MATH Core Sample Paper II Q22

- A.
- B.
- C.
- D.

23. HKDSE MATH Core Sample Paper II Q23

- A.
- B.
- C.
- D.

24. HKDSE MATH Core Sample Paper II Q24

- A.
- B.
- C.
- D.

25. HKDSE MATH Core Sample Paper II Q25

- A.
- B.
- C.
- D.

26. HKDSE MATH Core Sample Paper II Q26

- A.

- B.
- C.
- D.

27. HKDSE MATH Core Sample Paper II Q27

- A.
- B.
- C.
- D.

28. HKDSE MATH Core Sample Paper II Q28

- A.
- B.
- C.
- D.

29. HKDSE MATH Core Sample Paper II Q29

- A.
- B.
- C.
- D.

30. HKDSE MATH Core Sample Paper II Q30

- A.
- B.
- C.
- D.

31. HKDSE MATH Core Sample Paper II Q31

- A.
- B.

C.

D.

32. HKDSE MATH Core Sample Paper II Q32

A.

B.

C.

D.

33. HKDSE MATH Core Sample Paper II Q33

A.

B.

C.

D.

34. HKDSE MATH Core Sample Paper II Q34

A.

B.

C.

D.

35. HKDSE MATH Core Sample Paper II Q35

A.

B.

C.

D.

36. HKDSE MATH Core Sample Paper II Q36

A.

B.

C.

D.

37. HKDSE MATH Core Sample Paper II Q37

A.

B.

C.

D.

38. HKDSE MATH Core Sample Paper II Q38

A.

B.

C.

D.

39. HKDSE MATH Core Sample Paper II Q39

A.

B.

C.

D.

40. HKDSE MATH Core Sample Paper II Q40

A.

B.

C.

D.

41. HKDSE MATH Core Sample Paper II Q41

A.

B.

C.

D.

42. HKDSE MATH Core Sample Paper II Q42

A.

B.

C.

D.

43. HKDSE MATH Core Sample Paper II Q43

A.

B.

C.

D.

44. HKDSE MATH Core Sample Paper II Q44

A.

B.

C.

D.

45. HKDSE MATH Core Sample Paper II Q45

A.

B.

C.

D.