

HONG KONG EDUCATIONAL PUBLISHING CO.

# Mock Exam 15 Paper 2

$1\frac{1}{2}$  hours

Subject Code 180

1. Read carefully the instructions on the Answer Sheet and insert the information required (including the Subject Code) in the spaces provided.
2. When told to open this book, you should check that all the questions are there. Look for the words '**END OF EXAM**' after the last question.
3. All questions carry equal marks.
4. **ANSWER ALL QUESTIONS.** You should mark all your answers on the Answer Sheet.
5. You should mark only **ONE** answer for each question. If you mark more than one answer, you will receive **NO MARKS** for that questions.
6. No marks will be deducted for wrong answers.

### FORMULAS FOR REFERENCE

SPHERE	Surface area	$= 4\pi r^2$
	Volume	$= \frac{4}{3}\pi r^3$
CYLINDER	Area of curved surface	$= 2\pi rh$
	Volume	$= \pi r^2 h$
CONE	Area of curved surface	$= \pi r \ell$
	Volume	$= \frac{1}{3}\pi r^2 h$
PRISM	Volume	$= \text{base area} \times \text{height}$
PYRAMID	Volume	$= \frac{1}{3} \times \text{base area} \times \text{height}$

There are 36 questions in Section A and 18 questions in Section B.  
 The diagrams in this paper are not necessarily drawn to scale.  
 Choose the best answer for each question.

Section A

1. 
$$\frac{\overbrace{a \times a \times a \times \cdots \times a}^{10 \text{ times}}}{\underbrace{a + a + a + \cdots + a}_{10 \text{ times}}} =$$

- A.  $\frac{a^9}{10}$
- B.  $\frac{a^{10}}{10}$
- C. 1
- D.  $\frac{1}{10}$

2. Which of the following must be true?

- I.  $a^0 = 1$  for  $a \neq 0$ .
- II.  $a^3 > 0$  for  $a \neq 0$ .
- III.  $a^m \cdot a^n = a^{m+n}$  for  $a \neq 0$ .

- A. I only
- B. III only
- C. I and III only
- D. I, II and III

3. Find the value of  $\frac{\cos 60^\circ + \tan 45^\circ}{\tan 60^\circ + \sin 60^\circ}$ .

- A.  $\frac{1}{\sqrt{3}}$
- B.  $\frac{\sqrt{2}}{2}$
- C.  $\frac{3\sqrt{3}}{5}$
- D.  $\sqrt{3}$

4. If the general term of a sequence is  $T(n) = n(n + 1)$ , then the 10th term is

- A. 90.
- B. 110.
- C. 132.
- D. 156.

5. Which of the following is not a square number?

- A. 625
- B. 1521
- C. 2115
- D. 3249

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6.  $\frac{3x}{2x-1} - \frac{2x}{1-2x} =$

A.  $\frac{5x}{1-2x}$

B.  $\frac{5x}{2x-1}$

C.  $\frac{x}{1-2x}$

D.  $\frac{x}{2x-1}$

7. If  $M = x + 1$ , then  $M(M - 2) =$

A.  $x^2 - 2x + 1$ .

B.  $x^2 + 2x + 1$ .

C.  $x^2 + 1$ .

D.  $x^2 - 1$ .

8. If  $f(x) = x^2 + 2$ , what is the coefficient of  $x^2$  in the polynomial  $f(-2x + 1)$ ?

A.  $-4$

B.  $-2$

C.  $2$

D.  $4$

9. Factorize  $x^2 + 2xy + y^2 + x + y$ .

A.  $(x + y + 1)^2$

B.  $(x + y)(x + y + 1)$

C.  $(x - y)(x - y + 1)$

D.  $(x - y)(x - y - 1)$

10. If the equation  $3x^2 - 9x + c = 0$  has real roots, find the range of  $c$ .

A.  $c = \frac{27}{4}$

B.  $c > \frac{27}{4}$

C.  $c < \frac{27}{4}$

D.  $c \leq \frac{27}{4}$

11. The difference between the simple interest and compound interest (compounded yearly) on \$5000 at 4% p.a. for 3 years is

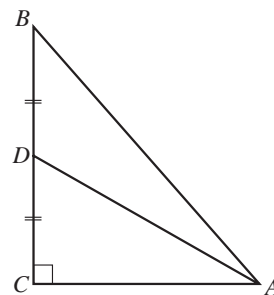
A. \$4.32.

B. \$24.32.

C. \$600.

D. \$624.32.

12. In the figure, the slope of  $AD$  is  $\frac{1}{\sqrt{3}}$  and  $BD = DC$ . Find the slope of  $AB$ .



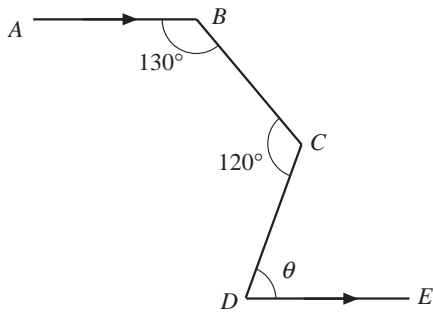
A.  $\frac{1}{2}$

B.  $\frac{2}{\sqrt{7}}$

C.  $\frac{\sqrt{3}}{2}$

D.  $\frac{2}{\sqrt{3}}$

13. In the figure, find the value of  $\theta$ .



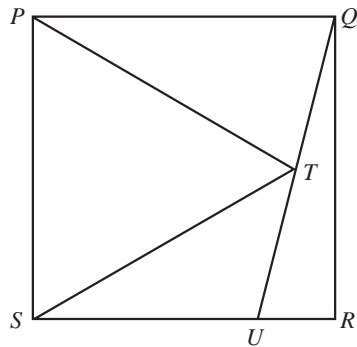
- A.  $50^\circ$   
 B.  $60^\circ$   
 C.  $70^\circ$   
 D.  $80^\circ$

15. Which of the following statements about two congruent triangles is false?

- A. SSA is one of the reasons to prove congruent triangles.  
 B. They have the same shape.  
 C. They have the same area.  
 D. Their corresponding angles are equal.

16. In the figure,  $AD$  is the angle bisector of  $\angle BAC$ .  
 If

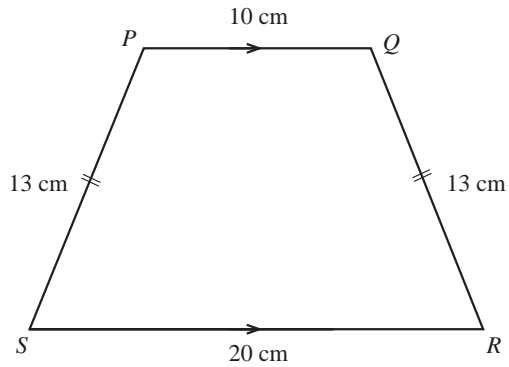
14. In the figure,  $PQRS$  is a square and  $PST$  is an equilateral triangle.  $\angle TUR =$



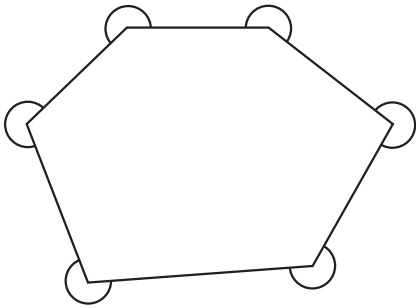
- A.  $15^\circ$ .  
 B.  $30^\circ$ .  
 C.  $75^\circ$ .  
 D.  $105^\circ$ .

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17. In the figure,  $PQRS$  is a trapezium.  $PQ \parallel SR$  and  $PS = QR = 13$  cm.  $PQ = 10$  cm and  $SR = 20$  cm. Find the area of  $PQRS$ .

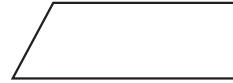


- A.  $90 \text{ cm}^2$   
 B.  $180 \text{ cm}^2$   
 C.  $270 \text{ cm}^2$   
 D.  $360 \text{ cm}^2$
18. In the figure, the sum of the marked angles is



- A.  $360^\circ$ .  
 B.  $720^\circ$ .  
 C.  $1080^\circ$ .  
 D.  $1440^\circ$ .

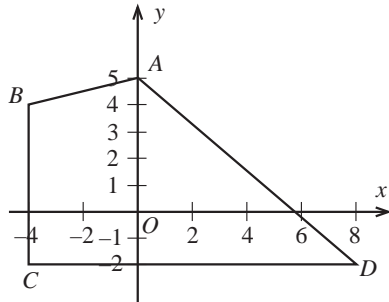
19. If the following figure is rotated  $90^\circ$  anti-clockwise, which of the following is its image?



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

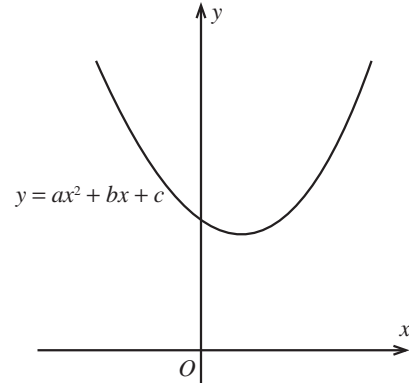
20. Suppose  $Y(3, -5)$  is the image of  $Z$  when  $Z$  is translated 4 units to the right. Find the coordinates of  $Z$ .
- A.  $(-1, -5)$   
 B.  $(3, -9)$   
 C.  $(3, -1)$   
 D.  $(7, -5)$

21. Find the area of  $ABCD$  as shown in the following figure.



- A. 50 sq. units  
 B. 52 sq. units  
 C. 54 sq. units  
 D. 56 sq. units
22. Find the equation of the line which passes through  $(-4, 1)$  and is parallel to the line  $2x + y - 3 = 0$ .
- A.  $2x - y + 7 = 0$   
 B.  $2x + y + 1 = 0$   
 C.  $2x + y + 2 = 0$   
 D.  $2x + y + 7 = 0$
23. If the graph of  $y = -3x$  is rotated  $90^\circ$  in a clockwise direction about the origin, then the equation of the new graph is
- A.  $x = 3y$ .  
 B.  $x = -3y$ .  
 C.  $y = 3x$ .  
 D.  $y = -3x$ .

24. The figure shows the graph of  $y = ax^2 + bx + c$ . Which of the following is/are true?

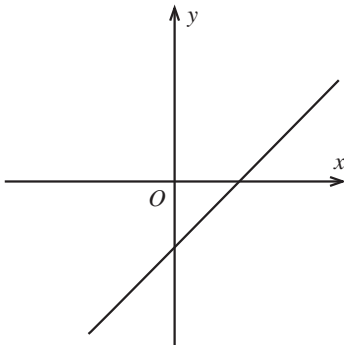


- I.  $a > 0$   
 II.  $c > 0$   
 III.  $\Delta > 0$
- A. I only  
 B. I and II only  
 C. II and III only  
 D. I, II and III

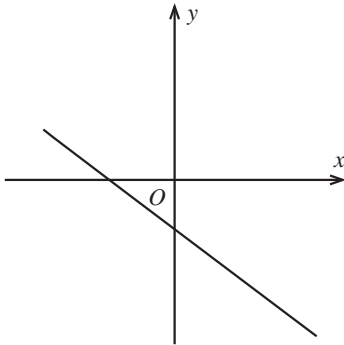
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25. Which of the following is the graph of  $ax + by + c = 0$  where  $a > 0$ ,  $b > 0$  and  $c < 0$ ?

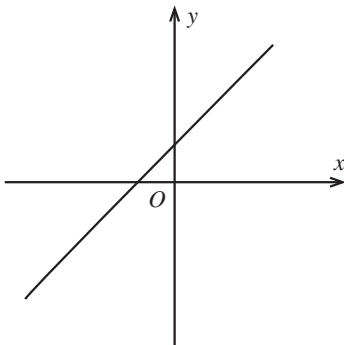
A.



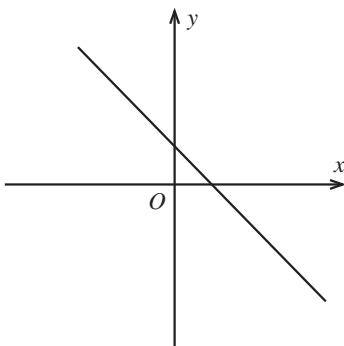
B.



C.



D.



26. What is the remainder when  $5x^3 + 2x - 1$  is divided by  $x^2 - 3$ ?

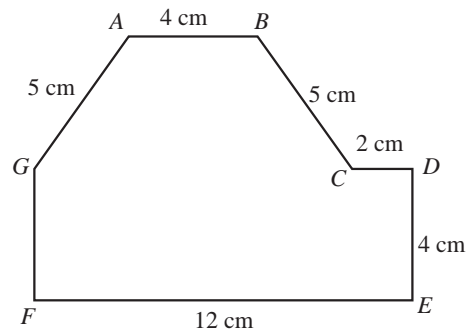
A.  $-142$

B.  $-13x - 1$

C.  $13x - 1$

D.  $17x - 1$

27. In the figure, area of the polygon  $ABCDEFG$  is



A.  $76 \text{ cm}^2$ .

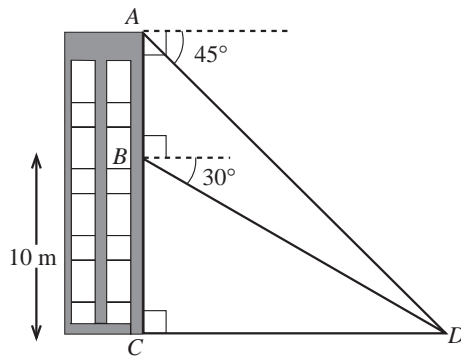
B.  $83 \text{ cm}^2$ .

C.  $90 \text{ cm}^2$ .

D.  $96 \text{ cm}^2$ .

28. In the figure, the area of the sector  $OAB$

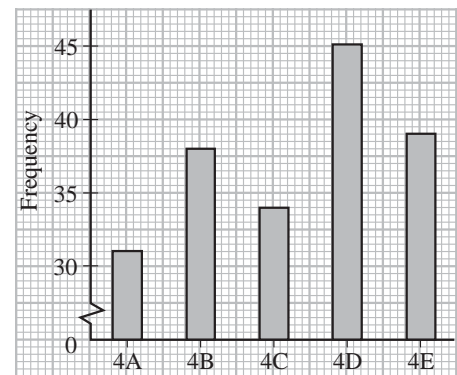
29. In the figure,  $ABC$  is a building. If the angle of depression of  $D$  from  $A$  and  $B$  are  $45^\circ$  and  $30^\circ$  respectively, find the height between  $A$  and  $B$ .



- A.  $10(2 - \sqrt{3})$  m  
 B.  $\frac{10\sqrt{3}}{3}$  m  
 C.  $10(\sqrt{3} - 1)$  m  
 D. 10 m
30. In a mathematics examination,  $\frac{1}{3}$  of students are boys and the rest are girls. 40% of boys and 60% of girls failed the examination. What was the passing percentage of the examination on the whole?
- A. 40%  
 B.  $46\frac{2}{3}\%$   
 C. 80%  
 D. 100%

31. If  $a : b = 2 : 3$  and  $6a - 5b = -9$ , then  $b - a =$
- A. -9.  
 B. -3.  
 C. 1.  
 D. 3.

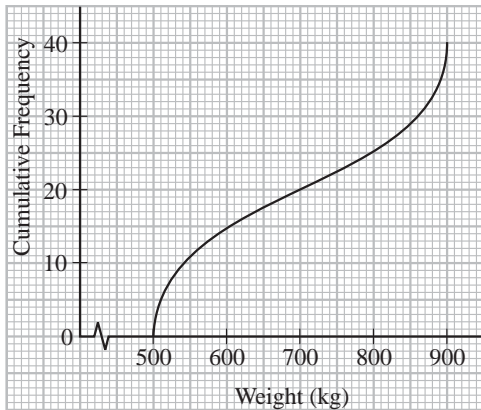
32. The bar chart shows the distribution of Form 4 students. Find the total number of Form 4 students.



- A. 152  
 B. 160  
 C. 177  
 D. 187

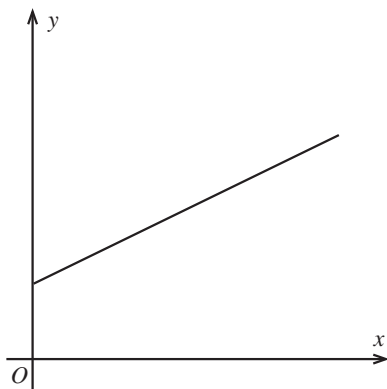
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33. The following cumulative frequency curve shows the weights of cows.



Find the inter-quartile range of the weights of cows.

- A. 280 kg  
 B. 300 kg  
 C. 320 kg  
 D. 420 kg
34. The graph shows the relation between  $x$  and  $y$ , where  $x, y \geq 0$ . Which of the following can represent the relation between  $x$  and  $y$ ?



- A.  $y = 3x$   
 B.  $y = 2 + x$   
 C.  $y = 2 - x$   
 D.  $y = 2x - 2$

35. Which of the following is an irrational number?

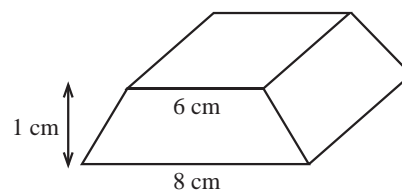
- A. 0.111 111...  
 B. 3.141 768  
 C.  $\pi$   
 D.  $\sqrt{9}$

36. David has six \$10 notes and four \$20 notes in his pocket. If he chooses a note at random, what is the expected value that he can get?

- A. \$14  
 B. \$15  
 C. \$16  
 D. \$70

### Section B

37. The figure shows a frustum with square base. The sides of the upper face and the base are 6 cm and 8 cm respectively. If the height of the frustum is 1 cm, find the volume of the frustum.

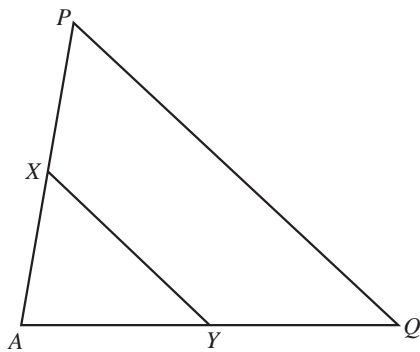


- A.  $36 \text{ cm}^3$   
 B.  $49 \text{ cm}^3$   
 C.  $49\frac{1}{3} \text{ cm}^3$   
 D.  $85\frac{1}{3} \text{ cm}^3$

38. If the price of a stock is increased by  $r\%$  every year, the price will be doubled after 20 years. Find the value of  $r$ .

- A. 2.01
- B. 3.23
- C. 3.53
- D. 103.53

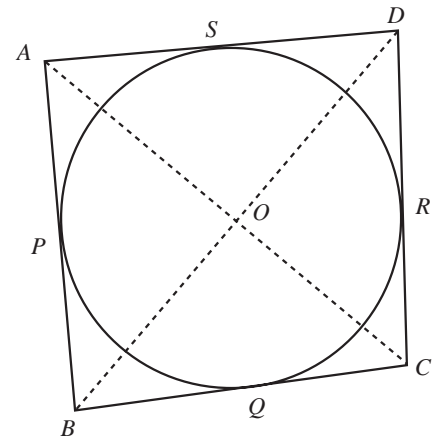
39. In the figure,  $X$  and  $Y$  are the mid-points of  $PA$  and  $QA$  respectively. Which of the following is / are true?



- I.  $XY \parallel PQ$
- II.  $\triangle AXY \sim \triangle APQ$
- III.  $2 \times \text{perimeter of } \triangle AXY = \text{perimeter of } \triangle APQ$

- A. I only
- B. II only
- C. I and II only
- D. I, II and III

40. In the figure,  $O$  is the centre of the circle.  $AB$ ,  $BC$ ,  $CD$  and  $DA$  are tangents to the circle at  $P$ ,  $Q$ ,  $R$  and  $S$  respectively. Which of the following must be true?



- I.  $AD + BC = AB + CD$
- II.  $A, B, C$  and  $D$  are concyclic.
- III.  $\angle AOB + \angle COD = 180^\circ$

- A. I and II only
- B. I and III only
- C. II and III only
- D. I, II and III

41. Which of the following is / are arithmetic sequence(s)?

- I.  $\log 2, \log 20, \log 200$
- II.  $0.3, 0.33, 0.333$
- III.  $4^2, 4^3, 4^4$

- A. I only
- B. II only
- C. III only
- D. none of the above

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42. If  $a$ ,  $b$  and  $c$  are in arithmetic sequence and their common differences are  $d$ , then the standard deviation of the number  $a$ ,  $b$  and  $c$  is
- A.  $\frac{2}{3}d$ .
- B.  $\frac{\sqrt{6}}{3}d$ .
- C.  $d$ .
- D.  $\sqrt{2}d$ .
43. A box of Brand A candies costs \$100 and contains 40 candies. A box of Brand B candies costs \$150 and contains 80 candies. A man wants to spend less than \$1200 to buy at least 480 candies. He buys at least 1 box of each brand of candies but not more than 6 boxes altogether. If he buys  $x$  boxes of Brand A candies and  $y$  boxes of Brand B candies, which of the following is correct?
- A. 
$$\begin{cases} 40x + 80y \geq 480 \\ 100x + 150y < 1200 \\ x \geq 1 \\ y \geq 1 \\ x + y \leq 6 \end{cases}$$
- B. 
$$\begin{cases} 40x + 80y \geq 480 \\ 100x + 150y \leq 1200 \\ x \geq 1 \\ y \geq 1 \\ x + y \leq 6 \end{cases}$$
- C. 
$$\begin{cases} 40x + 80y > 480 \\ 100x + 150y < 1200 \\ x \geq 1 \\ y \geq 1 \\ x + y \leq 6 \end{cases}$$
- D. 
$$\begin{cases} 40x + 80y \geq 480 \\ 100x + 150y < 1200 \\ x \geq 1 \\ y \geq 1 \\ x + y < 6 \end{cases}$$
44. The price of a spherical balloon varies directly as the square of its radius. If the radius of the balloon is 100 cm, its price is \$80. Find the price of the balloon when its radius is 60 cm.
- A. \$14.4
- B. \$24.0
- C. \$28.8
- D. \$48.0
45. If  $\begin{cases} y = 2x^2 + 1 \\ y - 3x = 0 \end{cases}$ , then  $x =$
- A.  $x = 1$ .
- B.  $x = -1$  or  $-\frac{1}{2}$ .
- C.  $x = 1$  or  $\frac{3}{2}$ .
- D.  $x = \frac{1}{2}$  or 1.
46. Arrange  $53_{10}$ ,  $C7_{16}$  and  $111\ 100_2$  in descending order of magnitudes.
- A.  $C7_{16} > 111\ 100_2 > 53_{10}$
- B.  $53_{10} > 111\ 100_2 > C7_{16}$
- C.  $C7_{16} > 53_{10} > 111\ 100_2$
- D.  $53_{10} > C7_{16} > 111\ 100_2$

47. Which of the following about a box-and-whisker diagram are true?

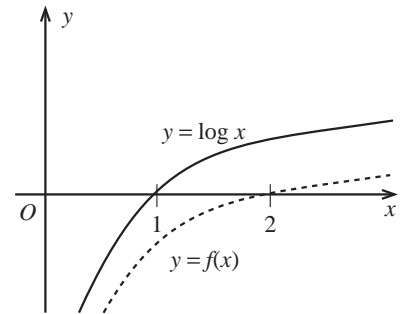
- I. It shows the maximum and minimum values.
- II. It shows the median.
- III. It can be used to find the inter-quartile range.
- IV. It can be used to find the standard deviation.

- A. I and II only
- B. I, II and III only
- C. I, II and IV only
- D. I, II, III and IV

48. 
$$\frac{\cos(180^\circ - \theta) \tan(90^\circ - \theta)}{\sin(360^\circ - \theta)} =$$

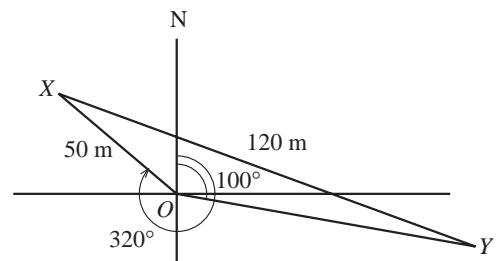
- A.  $\frac{1}{\tan^2 \theta}$
- B.  $\tan^2 \theta$
- C.  $-\tan^2 \theta$
- D.  $-\frac{1}{\tan^2 \theta}$

49. The figure shows the graphs of  $y = \log x$  and  $y = f(x)$ . Which of the following functions can represent  $y = f(x)$ ?



- A.  $y = \log \frac{x}{2}$
- B.  $y = \log 2x$
- C.  $y = \log(x - 2)$
- D.  $y = \log(x + 2)$

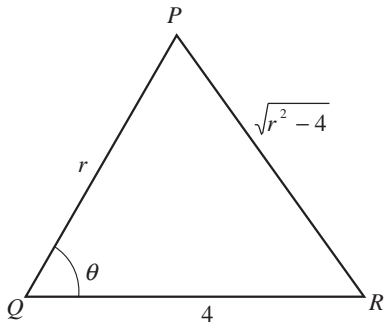
50. The bearings of  $X$  and  $Y$  from  $O$  are  $320^\circ$  and  $100^\circ$  respectively. If  $OX = 50$  m and  $XY = 120$  m, then  $OY =$



- A. 22.1 m.
- B. 33.1 m.
- C. 55.2 m.
- D. 77.3 m.

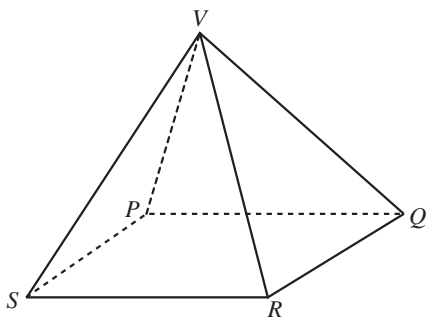
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51. In the figure, if  $0^\circ < \theta < 90^\circ$ ,  $\sin \theta =$



- A.  $\frac{5}{2r}$ .
- B.  $\frac{\sqrt{r^2 - 4}}{4}$ .
- C.  $\frac{\sqrt{r^2 - 4}}{r}$ .
- D.  $\frac{\sqrt{4r^2 - 25}}{2r}$ .

52. In the right pyramid  $VPQRS$ , the base  $PQRS$  is a square. If  $PQ = 3$  and  $VS = 4$ , find the angle between the planes  $VSR$  and  $VPQ$ ?

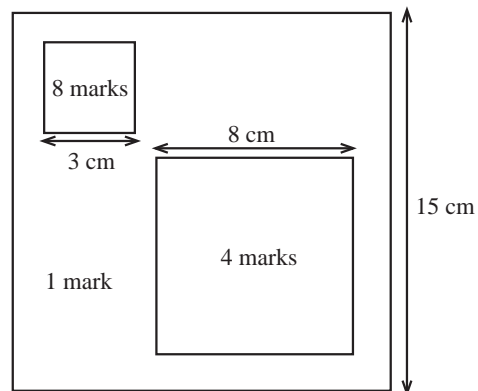


- A.  $47.7^\circ$
- B.  $64.1^\circ$
- C.  $69.1^\circ$
- D.  $90.0^\circ$

53. A lighthouse is  $h$  m high. The angle of elevation of the top of lighthouse from a ship which is at sea-level is  $60^\circ$ . How far is the ship from the bottom of the lighthouse?

- A.  $\frac{\sqrt{3}h}{3}$  m
- B.  $\frac{2\sqrt{3}h}{3}$  m
- C.  $\sqrt{3}h$  m
- D.  $2h$  m

54. The figure shows a square board with two squares inside it. The sides of the three squares are 15 cm, 8 cm and 3 cm respectively. Mary shoots the board 3 times and all of them hit the board. What is the probability that she gets no more than 10 marks if she gets 1 mark in the first shoot?



- A.  $\frac{137}{5625}$
- B.  $\frac{304}{5625}$
- C.  $\frac{576}{625}$
- D.  $\frac{5488}{5625}$

END OF EXAM

## 答題紙 ANSWER SHEET

須用 H.B. 鉛筆填寫  
USE AN H.B. PENCIL ONLY

(1)	科目名稱 Subject Name
(2)	考生姓名 Name of Candidate
(3)	考生簽署 Signature of Candidate

(4) 考生編號 Candidate No.						
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(6) 試場編號 Centre No.						
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(7) 科目編號 Subj. Code		
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考生須照下圖所示填劃  
答案：

23  A  B  C  D

錯填答案可用潔淨膠擦  
將筆痕徹底擦去。

Mark your answers as  
follows:

23  A  B  C  D

Wrong marks should be  
completely erased with  
a clean rubber.

1	<input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D	26	<input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D	51	<input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D	76	<input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D
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