

Edexcel International Primary Curriculum Mathematics

Year 6 Achievement Test
Sample Assessment Material
and Sample Mark Scheme

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For Further information please contact:

Edexcel Service operations (entries and registrations) serviceoperations@edexcel.com

Tel: +44 (0)844 463 2535

Or Edexcel Customer Services: +44 (0)1204 770696

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General Marking Guidance

- All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.
- There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.
- All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the team leader must be consulted.
- Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.

Write your name here						
Surname	Other names					
Edexcel International Primary Curriculum	Centre Number <table border="1"><tr><td></td><td></td><td></td><td></td><td></td></tr></table>					
	Candidate Number <table border="1"><tr><td></td><td></td><td></td><td></td><td></td></tr></table>					
Mathematics Year 6 Achievement Test						
Sample Assessment Material Time: 1 hour	Paper Reference PLSC01					
You do not need any other materials.	Total Marks					

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- Calculators are **NOT** allowed.



Information

- The total mark for this paper is 60.
- The marks for **each** question are shown in brackets – *use this as a guide as to how much time to spend on each question.*

Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ►

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Sample Assessment Material

PEARSON

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SECTION A

Answer ALL questions.

In Section A put a cross in one box ☐ to indicate your answer. If you change your mind, put a line through the box ☒ and then put a cross in another box ☐.

Each question in Section A is worth one mark.

1 $47 + 26 =$

613

☐

63

☐

73

☐

72

☐

2 Which of these numbers is a factor of 12?

24

☐

5

☐

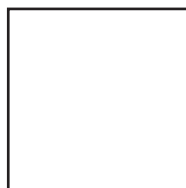
10

☐

4

☐

3 Here is a square.



How many lines of symmetry does a square have altogether?

1

☐

2

☐

3

☐

4

☐

4 There are 23 packets of cakes on a shelf.

Each packet holds 6 cakes.

How many cakes are there in total?

128

☐

120

☐

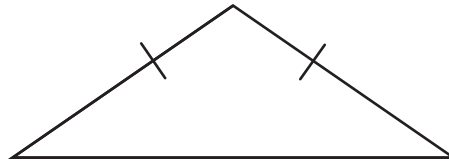
148

☐

138

☐

5 What is the special name of this triangle?



isosceles

☐

right-angled

☐

equilateral

☐

scalene

☐

6 The temperature in Moscow one morning was -7°C

By midday the temperature was 3°C higher.

What was the temperature at midday?

10°C

☐

-4°C

☐

-10°C

☐

4°C

☐

7 Here are nine numbers.

2 3 4 4 5 6 6 6 9

The mode is

6

☐

5

☐

7

☐

4

☐

8 How many faces does a cube have?

12

☐

6

☐

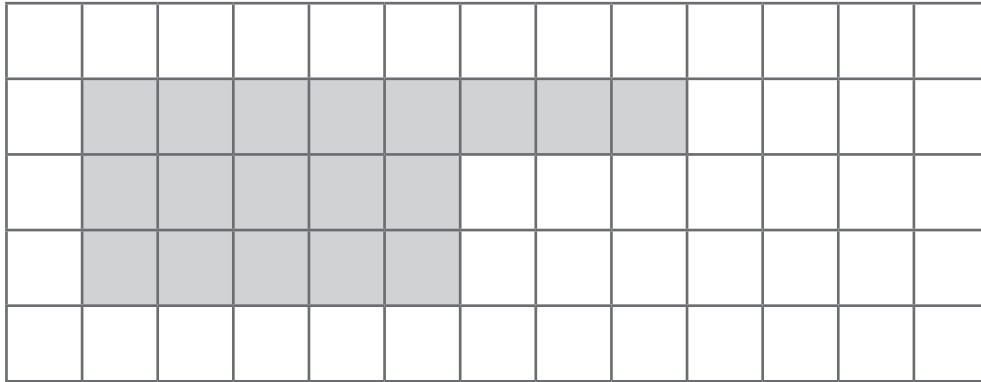
8

☐

4

☐

- 9 The diagram shows a shaded shape drawn on a centimetre grid.



What is the perimeter of the shaded shape?

18 cm

☐

26 cm

☐

22 cm

☐

24 cm

☐

- 10 Which one of these fractions is **not** equivalent to $\frac{2}{5}$?

$\frac{8}{20}$

☐

$\frac{15}{50}$

☐

$\frac{10}{25}$

☐

$\frac{16}{40}$

☐

- 11 $560 - 237 =$

337

☐

327

☐

323

☐

313

☐

12 748 when rounded to the nearest hundred is

7

☐

800

☐

700

☐

750

☐

13 Seven children did a quiz.

Here are their scores.

2

10

2

2

6

6

7

The range of their scores is

2

☐

6

☐

8

☐

5

☐

14 Which of these numbers are prime numbers?

2

6

7

9

12

15

2 and 9

☐

6 and 7

☐

9 and 15

☐

2 and 7

☐

15 $(9 - 2) \times 5 =$

30

☐

-1

☐

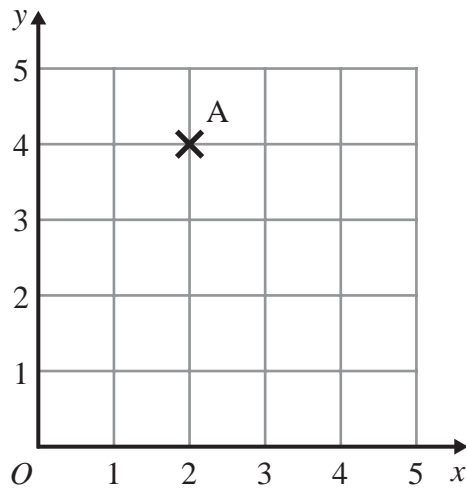
45

☐

35

☐

16



The coordinates of point A are

(2, 4)

☐

(4, 2)

☐

(-2, 4)

☐

(4, -2)

☐

17 $8a + 7 + 2a - 3 =$

$14a$

☐

$10a - 10$

☐

$10a + 4$

☐

$6a + 4$

☐

18 Which one of these numbers is a square number?

10

☐

60

☐

2

☐

36

☐

19 Sanghita has a bag of 12 counters.

3 of the counters are red.

2 of the counters are blue.

The rest of the counters are yellow.

Sanghita takes at random a counter from the bag.

What is the probability that the counter is yellow?

$$\frac{5}{7}$$



$$\frac{7}{12}$$



$$\frac{3}{12}$$



$$\frac{2}{12}$$



20 Carol is x years old.

Sam is 5 years older than Carol.

Sam's age in years is

$$x - 5$$



$$5x$$



$$x + 5$$



$$5 - x$$



TOTAL FOR SECTION A IS 20 MARKS

SECTION B

Answer ALL questions.

21 Here is a sequence of patterns made from sticks.



Pattern 1



Pattern 2



Pattern 3

The sequence continues in the same way.

(a) Draw pattern 4

(1)

(b) Complete the table.

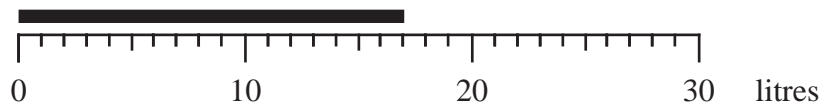
Pattern	1	2	3	4	5
Number of sticks	4	7			

(2)

(Total for Question 21 is 3 marks)

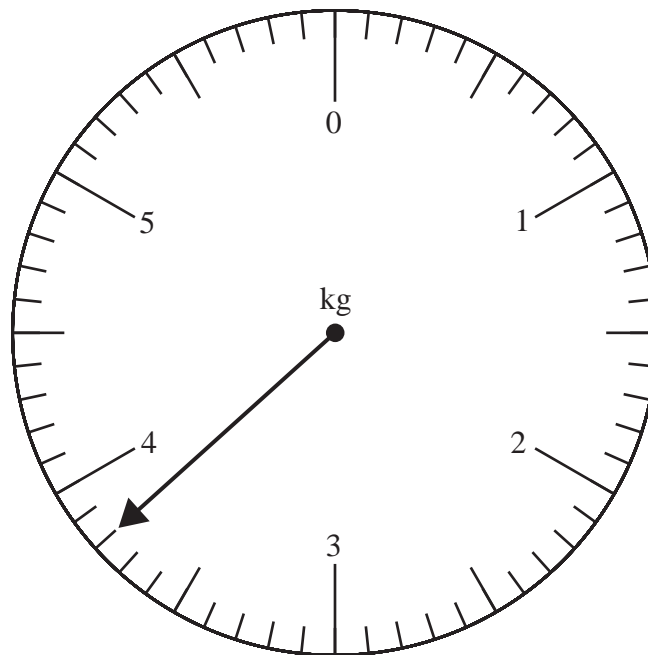
22 (a) The scale shows how much water there is in a water tank.

How many litres of water are there in the tank?



..... litres
(1)

(b) What mass is the arrow pointing to on this scale?


















..... kg
(1)

(Total for Question 22 is 2 marks)

23 Fred asked some of his friends the name of their favourite sport.

He drew a pictogram to show his results.

Tennis	  
Football	   
Basketball	  
Hockey	   
Netball	 

Key:

 represents 2 people

(a) Which sport was the most popular?

.....
(1)

(b) How many people chose tennis?

.....
(1)

(c) Which sport was chosen by exactly 7 people?

.....
(1)

(Total for Question 23 is 3 marks)

24 (a) Work out $\frac{1}{2}$ of 28 dollars.

..... dollars
(1)

George buys

1 packet of chips costing 85 cents.

1 packet of cakes costing 3.28 dollars.

1 dollar equals 100 cents.

He pays with a 10 dollar note.

(b) How much change should George get?

.....
(2)

(Total for Question 24 is 3 marks)

- 25** (a) Which metric unit would you use to measure the distance from London to New Delhi?

.....
(1)

- (b) Measure the length of the line shown below.

Give your answer in centimetres.

..... cm
(1)

- (c) Here is a rectangle.

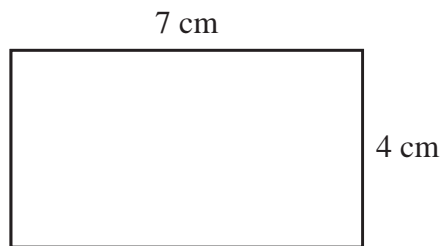


Diagram **NOT**
accurately drawn

Work out the area of this rectangle.

..... cm²
(1)

(Total for Question 25 is 3 marks)

- 26** (a) Write 37% as a fraction.

.....
(1)

- (b) Work out 25% of 36

.....
(1)

(Total for Question 26 is 2 marks)

27 (a) Write these numbers in order of size

0.67

0.6

0.07

0.76

Start with the smallest number.

.....
(1)

(b) Write 0.6 as a percentage.

..... %
(1)

(c) Write 0.07 as a fraction.

.....
(1)

(Total for Question 27 is 3 marks)

28 Harry kept a record of the number of goals his football team scored in each of 20 matches.

3 2 4 1 3 2 3 1 0 1
0 2 1 1 2 3 1 0 4 2

(a) Use this information to complete the tally chart.

Number of goals	Tally	Frequency
0		
1		
2		
3		
4		

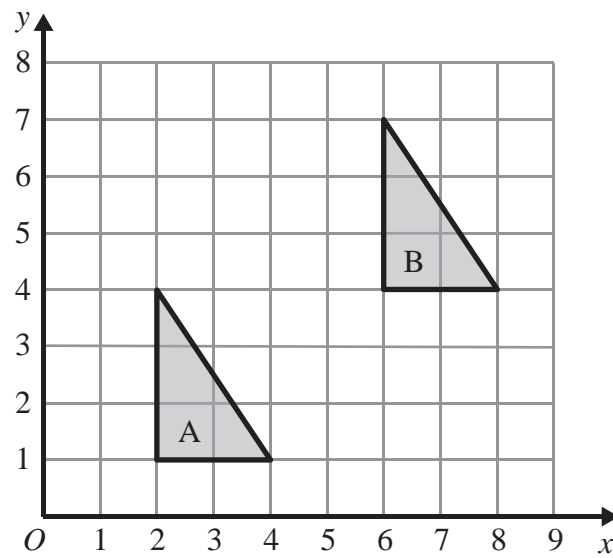
(2)

(b) On the grid, draw a bar chart to represent this information.

(2)

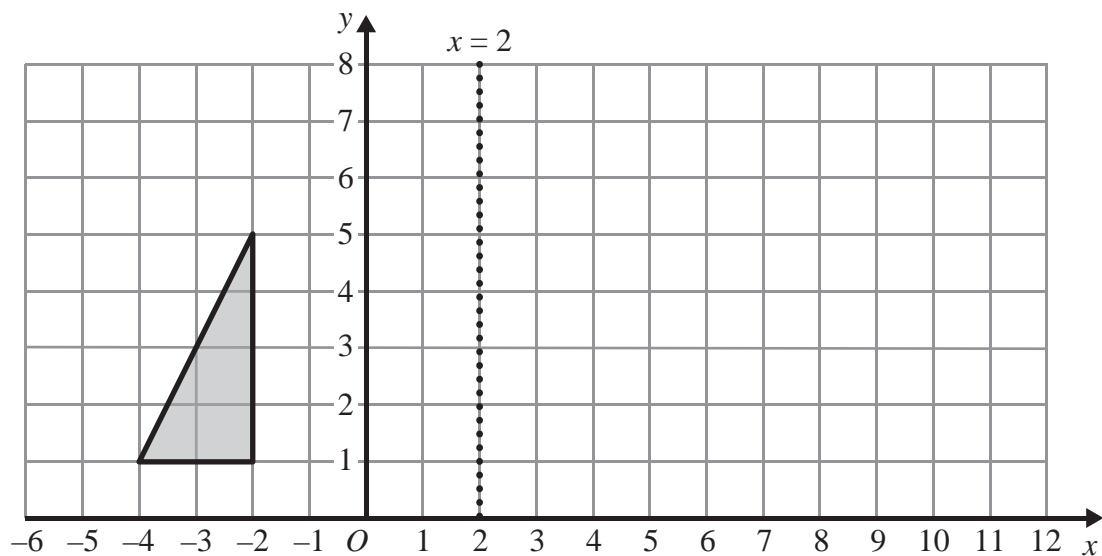
(Total for Question 28 is 4 marks)

29



(a) Describe the translation of shape A onto shape B.

(1)



(b) Reflect the triangle in the line $x = 2$

(2)

(Total for Question 29 is 3 marks)

30 (a) Simplify fully $4f - 8f + 7f$

.....
(1)

(b) Multiply the brackets out $4(a + 5)$

.....
(1)

(c) Solve $k - 15 = -7$

$k =$
(1)

(d) Solve $4x + 7 = 31$

$x =$
(2)

(Total for Question 30 is 5 marks)

31 Ben goes to a cafe.

He can choose one main course and one dessert.

Main Course	Dessert
Pizza	Fruit
Burger	Ice cream
Steak pie	

Write down all the possible combinations of main course **and** dessert Ben can choose.

.....

.....

.....

.....

(Total for Question 31 is 2 marks)

32 Here is a shape.

All the corners are right angles.

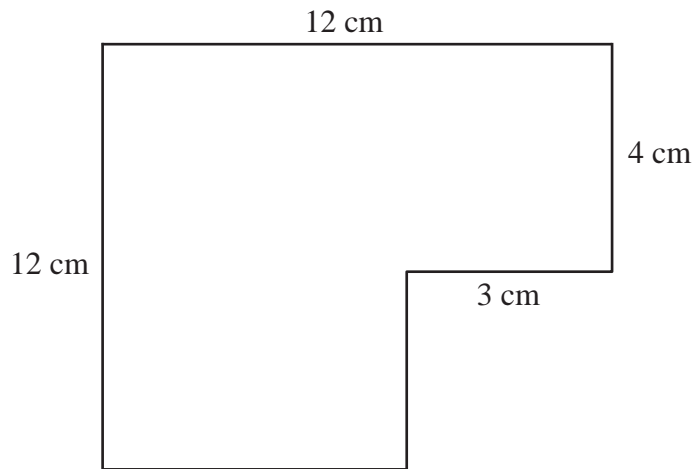


Diagram **NOT**
accurately drawn

Work out the area of this shape.

..... cm²

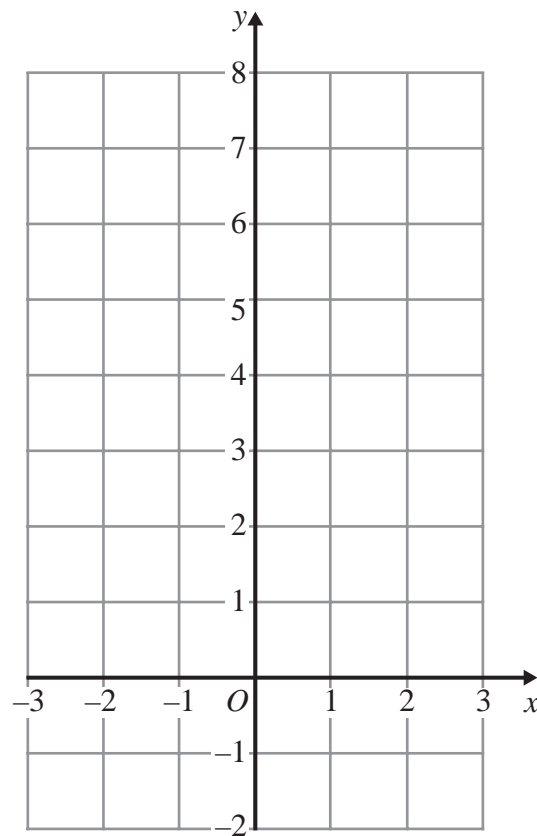
(Total for Question 32 is 3 marks)

33 (a) Complete the table of values for $y = 2x + 3$

x	-2	-1	0	1	2
y		1			7

(2)

(b) Draw the graph of $y = 2x + 3$



(2)

(Total for Question 33 is 4 marks)

TOTAL FOR SECTION B IS 40 MARKS

TOTAL FOR PAPER IS 60 MARKS

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Mark Scheme for paper PLSC01

Section A

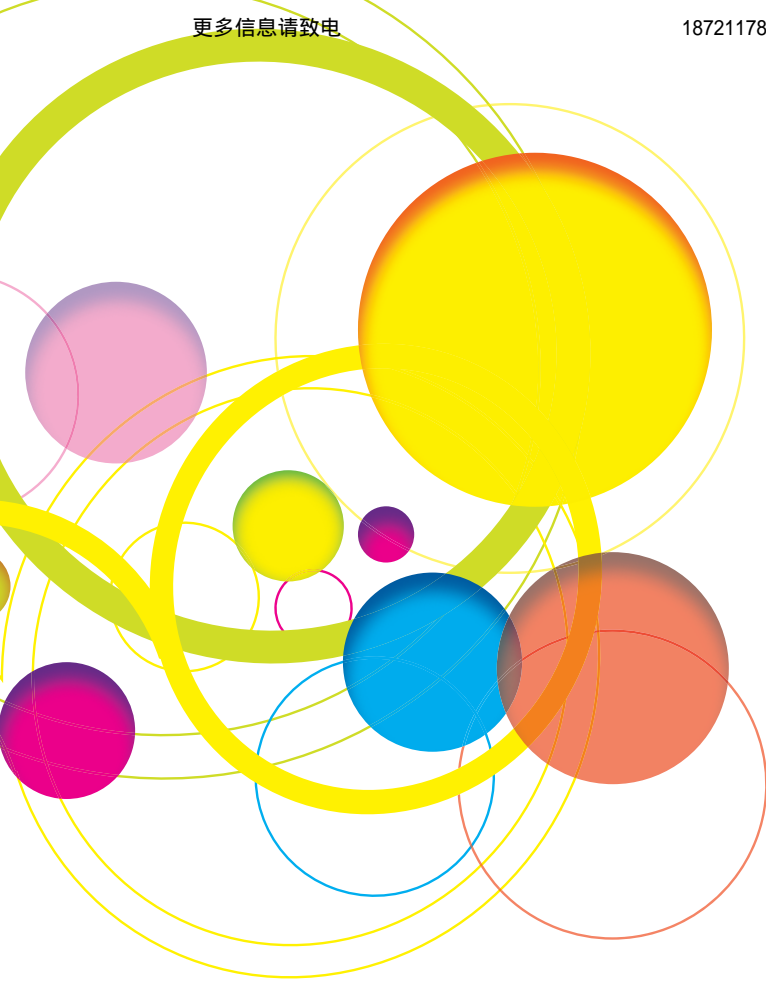
Question Number	Answer	Mark
1	C	1
2	D	1
3	D	1
4	D	1
5	A	1
6	B	1
7	A	1
8	B	1
9	C	1
10	B	1
11	C	1
12	C	1
13	C	1
14	D	1
15	D	1
16	A	1
17	C	1
18	D	1
19	B	1
20	C	1

Section B

Question Number	Working	Answer	Mark	Notes
21(a)			1	B1
21(b)		10, 13, 16	2	B1 ft for 10 B1 ft add 3 for 13, 16
22(a)		17	1	B1 cao
22(b)		3.8	1	B1 cao
23(a)		Football	1	B1 cao
23(b)		6	1	B1 cao
23(c)		Hockey	1	B1 cao
24(a)		14	1	B1 cao
24(b)	$10 - 3.28 - 0.85$	5.87 dollars or 587 cents	2	M1 for $328 + 85$ or $3.28 + 0.85$ or 413 or 4.13 or $10 - 3.28 - 0.85$ oe A1 cao
25(a)		kilometres	1	B1 for km or kilometres
25(b)		7.5	1	B1 for 7.5 ± 0.2
25(c)	7×4	28	1	B1 cao
26(a)		$\frac{37}{100}$	1	B1 cao
26(b)		9	1	B1 cao

Question Number	Working	Answer	Mark	Notes
27(a)		$0.07, 0.6, 0.67, 0.7$ 6	1	B1 cao
27(b)		60	1	B1 cao
27(c)		$\frac{7}{100}$	1	B1 $\frac{7}{100}$
28(a)		3, 6, 5, 4, 2	2	B2 for all correct frequencies (B1 for any 2 correct tallies or frequencies)
28(b)		Correct graph	2	M1 for any bar drawn correctly ft from their table A1 for fully correct and labelled graph
29(a)		4 squares to the right and 3 squares up or $\begin{pmatrix} 4 \\ 3 \end{pmatrix}$	1	B1
29(b)		(6,1) (6,5) (8,1)	2	B2 for correct triangle (B1 for any reflection in a vertical line)
30(a)		$3f$	1	B1 cao
30(b)		$4a + 20$	1	B1 cao
30(c)		8	1	B1 cao
30(d)		6	2	M1 for subtracting 7 from each side or dividing all terms by 4 A1 cao

Question Number	Working	Answer	Mark	Notes
31		(pizza, fruit) (pizza, ice cream) (burger, fruit) (burger, ice cream) (steak pie, fruit) (steak pie, ice cream)	2	B2 for all 6 combinations (ignore any repeats) (B1 for any 3 correct combinations)
32		120	3	M1 for clear attempt to divide shape into rectangles M1 for finding one unknown length ($12 - 4 = 8$ or $12 - 3 = 9$) A1
33(a)		-1, 3, 5	2	B2 all correct (B1 any 1 correct value)
33(b)		Correct graph	2	M1 for any 3 points plotted correctly ft from table A1 for correct graph from $x = -2$ to $x = 2$



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