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LKG Math Question Paper

1. Count and write the number in the box



2. Write the numbers from 6 - 10

1 2 3 4 5 6 7 8 9 10

3. Count and match



Limits Quick Quiz

SOLUTIONS

Part I: Identifying limits and values on a graph

1)  $f(0) = -4$

2)  $\lim_{x \rightarrow 0} = 0$

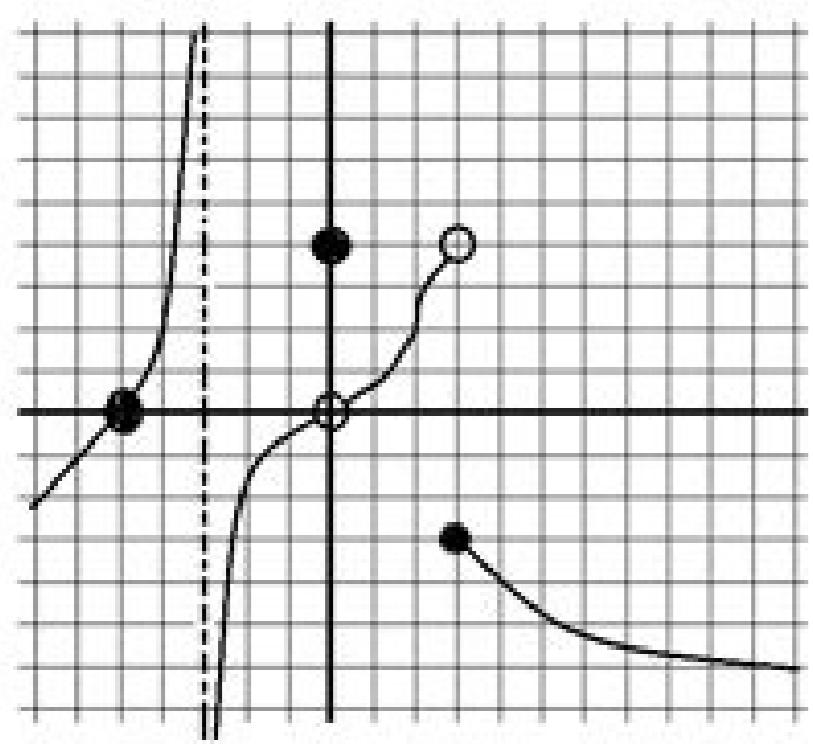
3)  $\lim_{x \rightarrow -4} = 2$

4)  $\lim_{x \rightarrow 3} = \text{DNE}$  (Does Not Exist, because limit from the left (-) is not the same as limit from the right (+))

5)  $\lim_{x \rightarrow -3^+} = -\infty$

6)  $f(4) = -4$

7)  $f(-3) = \text{Undefined}$



Part II: Finding Limits

1)  $\lim_{x \rightarrow 3} \frac{2x-6}{x^2-9}$

plug in value:  $\frac{2(3)-6}{(3)^2-9} = \frac{0}{0}$

factor and cancel:  $\frac{2(x-3)}{(x+3)(x-3)}$

plug in value again:  $\frac{2}{(3)+3} = \frac{1}{3}$

4)  $\lim_{x \rightarrow \infty} \frac{3-4x^2}{x^2+3x+2}$

lead term of numerator:  $-4x^2$  (degree: 2)

lead term of denominator:  $x^2$  (degree: 2)

Since the degrees are the same, use the coefficients:

$\frac{-4}{1} = -4$

7)  $\lim_{x \rightarrow 2^+} \frac{4}{x-2}$

As x gets closer to 2, f(x) gets larger and larger

$\infty$

2)  $\lim_{x \rightarrow 4} \frac{x^2+6x-40}{3x+6}$

plug in value:  $\frac{(4)^2+6(4)-40}{3(4)+6} = \frac{0}{18} = 0$

3)  $\lim_{x \rightarrow 9} \frac{\sqrt{x}-3}{x-9}$

multiply by the conjugate:

$\frac{\sqrt{x}-3}{x-9} \cdot \frac{\sqrt{x}+3}{\sqrt{x}+3} = \frac{1}{(\sqrt{x}+3)}$

limit is  $\frac{1}{6}$

5)  $\lim_{x \rightarrow 0} \frac{|x|}{3x} = \text{DNE}$

6)  $\lim_{x \rightarrow \infty} \frac{235}{3x+2}$

The degree of the denominator is greater than the degree of the numerator.

Since it is "bottom heavy", the limit is 0

(as x gets larger and larger, the function decreases)

9)  $\lim_{x \rightarrow 2} \frac{4}{x-2}$

Does not exist.

limit from the left is negative  $\infty$

limit from the right is positive  $\infty$

Since they are not equal, limit DNE

10)  $\lim_{x \rightarrow 2} \frac{x^2-4}{x^2-7x+10}$

$f(2) = \frac{0}{0}$

factor the quadratics:

$\frac{(x+2)(x-2)}{(x-2)(x-5)}$  and plug in 2

$\frac{4}{-3}$

11)  $\lim_{x \rightarrow 0} \frac{x^2+3x}{x}$

$\lim_{x \rightarrow 0} \frac{x(x+3)}{x}$

Degree of numerator is greater than degree of denominator, so the equation would go to  $\infty$

("top heavy")... Then, since there is a negative sign, equation goes to  $-\infty$

((0)+3)=3

12)  $\lim_{x \rightarrow \infty} \frac{2x^3+8x}{-3x^2+6}$

(Note: sometimes, a quick sketch of the function can be helpful; or, it's a nice way to check your answers!)

mathplane.com

1) Revenue function:  $R(x) = 6x$ Cost function:  $C(x) = x^3 - 6x^2 + 15x$ 

Verify that the best your business can do is 'break even'

Profit = Revenue - Cost

To find maximum/minimum profit,  
set first derivative equal to zero:

$$P(x) = 6x - (x^3 - 6x^2 + 15x)$$

$$= -x^3 + 6x^2 - 9x$$

$$P'(x) = -3x^2 + 12x - 9$$

$$-3x^2 + 12x - 9 = 0 \quad (\text{divide by } -3)$$

$$x^2 - 4x + 3 = 0 \quad (\text{factor})$$

$$(x - 1)(x - 3) = 0 \quad (\text{solve})$$

$$x = 1 \text{ and } 3$$

Test each solution in the original equations!

At 1:

$$R(1) = 6(1) = 6$$

$$C(1) = (1)^3 - 6(1)^2 + 15(1) = 10$$

Cost (10) exceeds Revenue (6)

Business loses money....

At 3:

$$R(3) = 6(3) = 18$$

$$C(3) = (3)^3 - 6(3)^2 + 15(3)$$

$$= 27 - 54 + 45 = 18$$

Cost (18) matches Revenue (18)

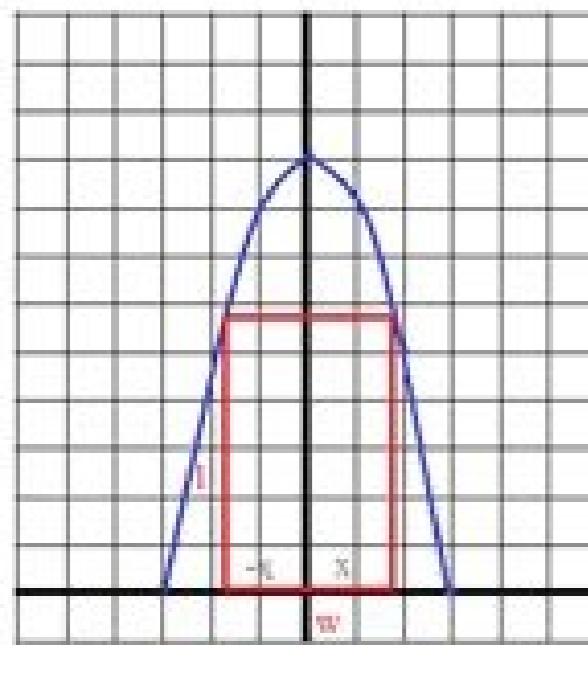
Business breaks even... ✓

2) What is the maximum area of a rectangle that is inscribed under  $y = -x^2 + 9$  and above the x-axis.

Step 1: Write variables and formulas

Area of rectangle = length x width  
width =  $x + |x| = 2x$   
length =  $-x^2 + 9$

Step 1a: Draw a picture

Step 2: Find maximum of function  
(take the derivative, and set = 0)

$$A(x) = (-x^2 + 9)(2x)$$
$$= -2x^3 + 18x$$

$$A'(x) = -6x^2 + 18$$

set equal to zero to find max/min

$$-6x^2 + 18 = 0$$

$$x^2 = 3$$

$$x = \sqrt{3}, -\sqrt{3}$$

Step 3: Solve/Answer the question

Since the maximum area occurs at  $x = \sqrt{3}$ 

the length =  $(\sqrt{3})^2 + 9 = 6$

the width =  $2(\sqrt{3}) = 2\sqrt{3}$

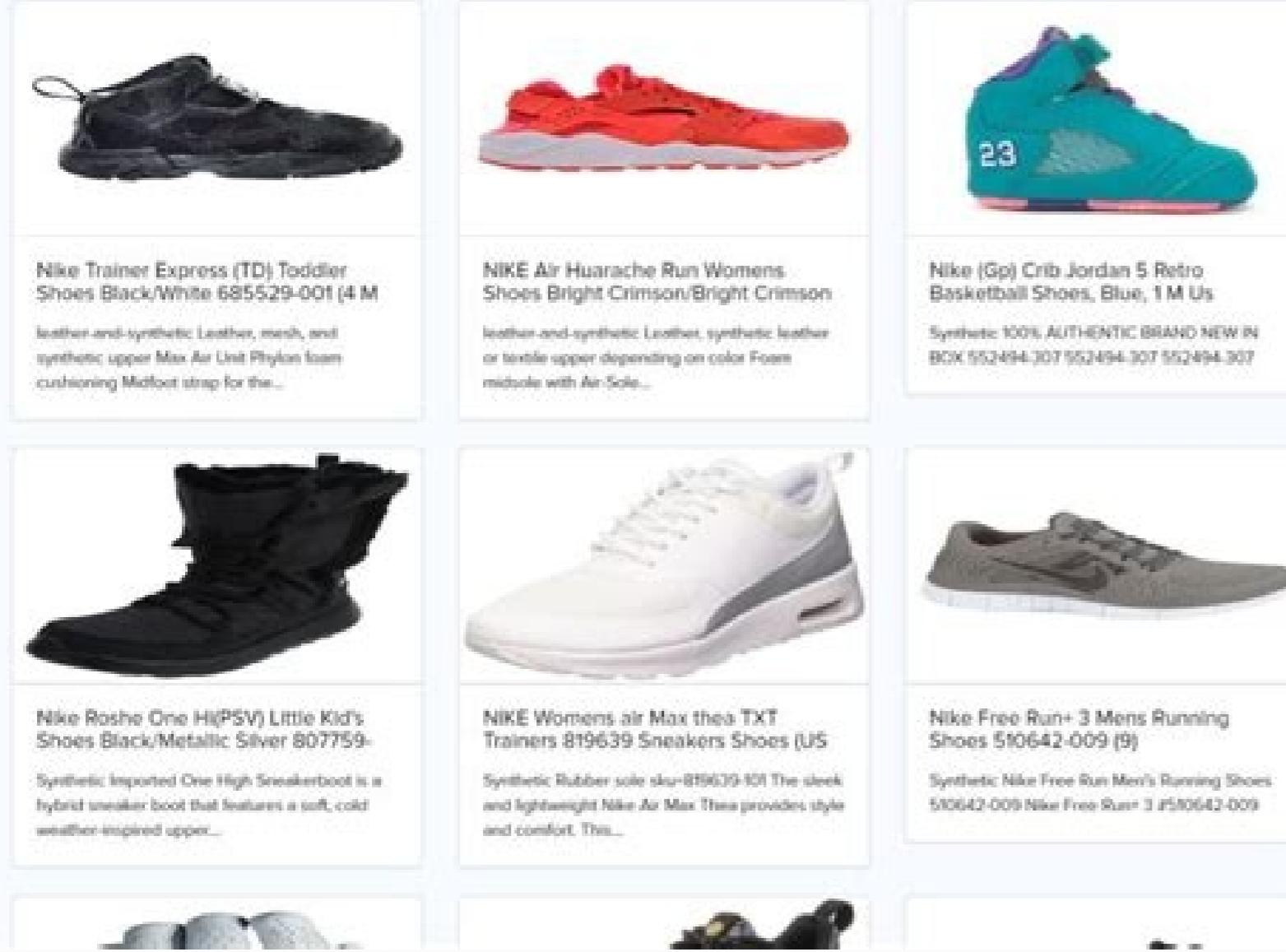
Area =  $12\sqrt{3}$  or approximately 20.8 square units

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939 Results

JSON API CALL



First name: _____	Surname: _____	No.: _____
Date: _____		

## A DIALOGUE ABOUT GAMES



MARK: We might go to the football match next Saturday, Cristina.

CRISTINA: Football? You must be joking. I can't stand it.

MARK: No? Why not?

CRISTINA: Oh, Mark, haven't you realised yet? Twenty-two men in shorts, running after a ball, trying to kick it into a net, a man blowing a whistle, two others waving flags... and thousands of people shouting and screaming like madmen every time it's a goal or not. Is this a game?

MARK: I see... you prefer things like hopscotch, hide-and-seek, leap frog, blind man's buff...

CRISTINA: Don't tease me, Mark. I'm not a child any more and there are much better sports than football.

MARK: Really?

CRISTINA: Yes, take volleyball, for example. It's so exciting, I'd say wonderful, the two teams trying to keep the ball in motion without letting it touch the ground. No foul play, no violence...

MARK: Yes, maybe you're right. I like volleyball, too. For me all ball games are great!

CRISTINA: Not only ball games, Mark. Don't you like badminton, cards, chess, even darts... and things like that?

MARK: Er... of course I do. Especially if I can play it with you!

CRISTINA: Oh Mark! This is not fair play...

## A) ANSWER THESE QUESTIONS ON THE TEXT:

1. What are Cristina and Mark talking about?

2. On what day of the week are football games played in England?

3. Why does Mark mention children's games like hopscotch?

4. What kind of sports and games does Cristina prefer?



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