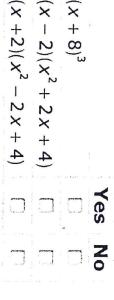
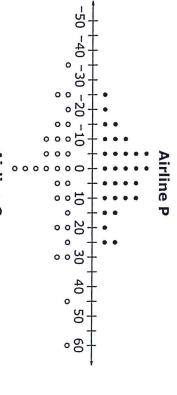
2 Determine whether each expression is equivalent to $(x^3 + 8)$. Select Yes or No for each expression.



What is the value of f(6)?

16. The dot plots below compare the number of minutes 30 flights made by two airlines arrived before or after their scheduled arrival times



Airline Q

Negative numbers represent the minutes the flight arrived before its scheduled time.

Positive numbers represent the minutes the flight arrived after its scheduled time.

Zero indicates the flight arrived at its scheduled time.

from which airline should you buy your ticket? Use the ideas of center and spread to justify your choice. Assuming you want to arrive as close to the scheduled time as possible,

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23. Determine values for c and d for which the equation

$$\sqrt{3x+1} - \sqrt{cx+d} = 0$$

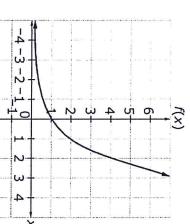
has no solution.

Enter a value for c in the first response box.

Enter a value for d in the second response box.

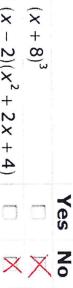
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15. The graph of an exponential function f passes through (0, 1) and (2, 4), as shown.



Equation: $y = a(b)^x$ Parent Exponential

2 Determine whether each expression is equivalent to $(x^3 + 8)$. Select Yes or No for each expression.



 $(x-2)(x^2+2x+4)$ $(x+2)(x^2-2x+4)$

two airlines arrived before or after their scheduled arrival times.

0 0 000 0 0 0

Airline Q

scheduled time. Negative numbers represent the minutes the flight arrived before its

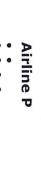
scheduled time. Positive numbers represent the minutes the flight arrived after its

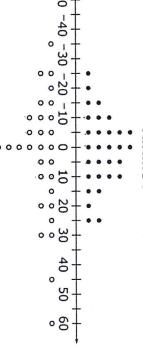
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16. The dot plots below compare the number of minutes 30 flights made by

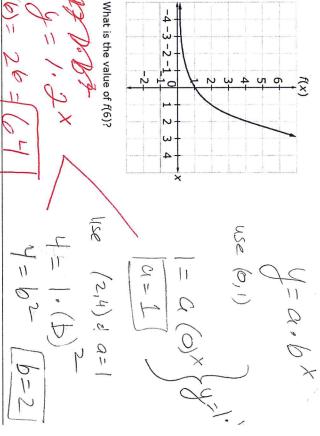






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15. The graph of an exponential function f passes through (0, 1) and (2, 4), as shown.



23. Determine values for c and d for which the equation

$$\sqrt{3}x + 1 - \sqrt{cx + d} = 0$$

has no solution.

Enter a value for c in the first response box.

Enter a value for d in the second response box.

#16

I would pick Airling P

733

Recause:

Airline of had a much greater had styler or later than any earlier or later than any

Flights arrive within thing of scheduled thing

(4)

where as only

Airline of flights

Airline of flights

arraye within 10 min

arraye within 10 min

arraye within 10 min

arraye

 $\sqrt{3x+1} = \sqrt{6x+4}$

3x+1 - Cx+d

for their to be no solution
the variables must conce!

(i. c=3) and you must
be left with a FALSE

statement so d can be

any # except 1