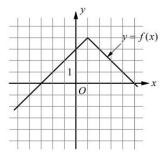
SSAT 数学最后几层窗户纸 x



The graph of the function f is shown in the xy - plane above, tell me the value of f(10), f(-20)



-2, 0, 2, 0, -2, 0, 2, 0, ...

In the sequence above, -2 is the first term. If the pattern -2, 0, 2, 0 repeats itself indefinitely, which of the following terms has a value of -2?

a. 30^{th} , b. 31^{st} , c. 32^{nd} , d. 33^{rd} e. 34^{th}

提示: 结果不是32

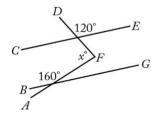
In the xy-coordinate plane, if point P(4, 3) is reflected across the y-axis and then translated down 5 units, what are the coordinates of the resulting point?

 $\sqrt{8} + \sqrt{18}$?

What is the least common multiple of 6, 10, and 28?

Question: A rectangular garden has a length of 10 meters and a width of 5 meters. The garden is being redesigned, and the dimensions will be converted to centimeters.

- 1. What will be the new length and width of the garden in centimeters?
- 2. If the area of the garden is to be doubled after the transformation, what should the new length and width be in centimeters?



In the figure, segments $\overline{AF}, \ \overline{BG}, \ \overline{CE}, \ \text{and} \ \overline{DF}$ intersect as shown. If $\overline{BG} \parallel \overline{CE}, \ \text{what is the value of} \ x \ ?$

Simplify: $\Big(x^{rac{1}{2}}\Big)^{\!\!3} \Big(x^3\Big)^{\!\!-rac{1}{2}}$ for $x\ >0$

Which of the following could be the length of the sides of a triangle?

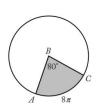
a. 4, 4, 8

b. 2,3,6

c. 7,7,20

d. 5,5,8

Let the functions f and g be defined as $f\left(x\right)=9-x$ and $g\left(x\right)=3x^{2}$. If $g\left(-2\right)=k$, what is the value of $f\left(k\right)$?



Point B is the center of the circle shown, and the length of arc \widehat{AC} is 8π . What is the radius of the circle?

来尝试几个幂的计算:

(1)
$$3^{3^2} - 1^{1000000} + 0^{2024} =$$

(3)
$$\frac{4^3 * 4^2}{2^{-2}}$$