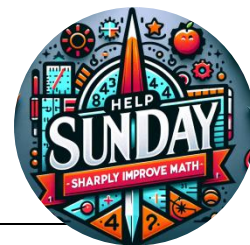一条直线通过 (3-x, 4)，(5, 6x) 两个点，且斜率等于 4，

1. 求 x，并给出这条直线的方程表示。
2. 当这条线往右移动 4，再往下移动 5， 新的直线的方程式是什么？

Sand is poured into a box at a rate of 2 ft^3 per hour. The box has a length of 2 ft, a width of 1 ft, and a height of 5 ft. What is the time, in <u>minutes</u>, it will take to completely fill the box?

Question

Sophia swam **500 meters** in **9 minutes and 30 seconds**. Which of the following is the best estimate for Sophia's speed in **miles per hour**?

(Use $1\,\mathrm{mile} = 1.6\,\mathrm{kilometers}$).

Options:

A) $1.8\,\mathrm{mph}$
B) $2.1\,\mathrm{mph}$
C) $3.2\,\mathrm{mph}$
D) $4.5\,\mathrm{mph}$
E) $6.0\,\mathrm{mph}$

Question

Solve for x in the equation:

$$\frac{24x^4}{8x^2} = 216 \qquad \frac{54x^6}{18x^2} = 486 \qquad \frac{40x^5}{10x^3} = 250$$

(这是三道题)

简化: $6p^2 + 18p - 60$

Question

A system of linear equations is shown below:

$$2x - 3y = 7$$

$$-4x + 6y = -14$$

Which of the following statements are **true** about the graph of the system in the xy-coordinate plane?
(Select all that apply.)

Options

A) The system is represented by the same line.

B) The system has infinitely many solutions.

C) The lines intersect at $\left(0, -\frac{7}{3}\right)$.

D) The lines are parallel but do not overlap.

E) The slope of the lines is $\frac{2}{3}$.

计算: $\left(p - \dfrac{-3 + 3\sqrt{5}}{2}\right)\left(p - \dfrac{-3 - 3\sqrt{5}}{2}\right)$