HW: Worksheet

Write and graph a function for each situation.

3) A plant is 1in tall and grows 2.5in per day.

4) A phone call costs 5 cents a minute.

5) The mileage for your car is 25mi/gal.

6) The yearbook committee spends $8 to produce each yearbook and $24 on advertising.

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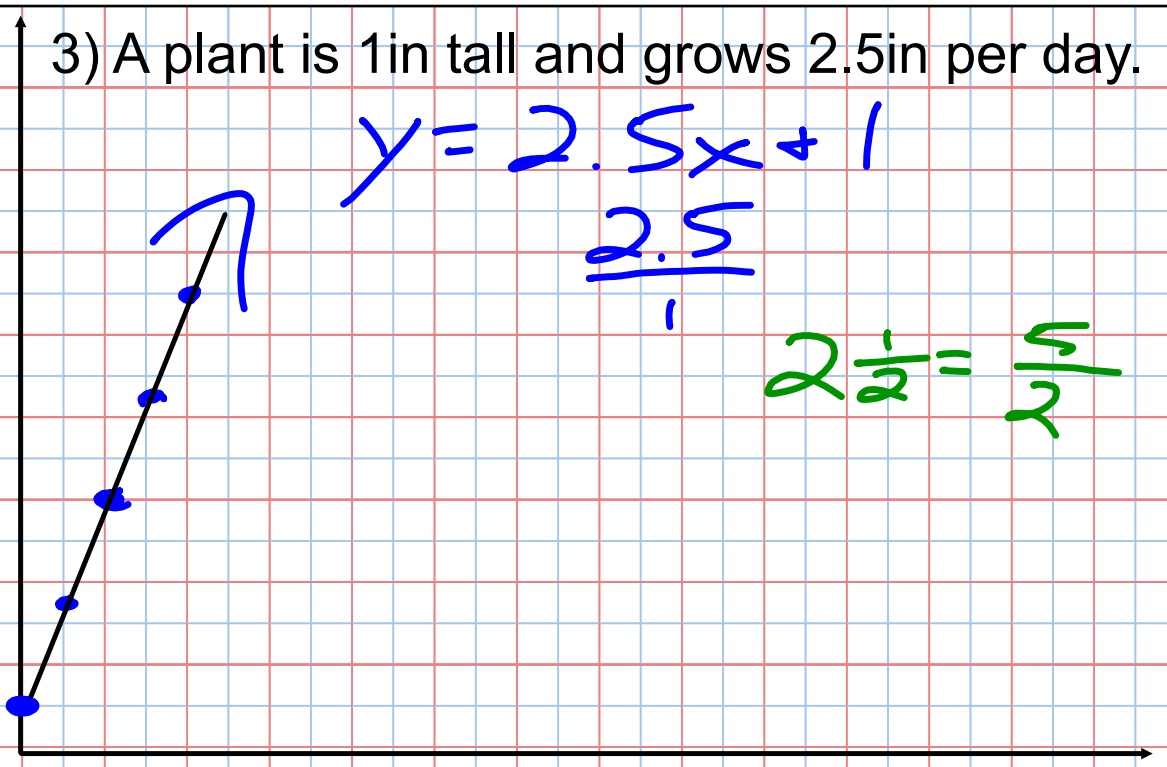
3) A plant is 1in tall and grows 2.5in per day.

$y = 2.5x + 1$

$\frac{2.5}{1}$

$2\frac{1}{2} = \frac{5}{2}$



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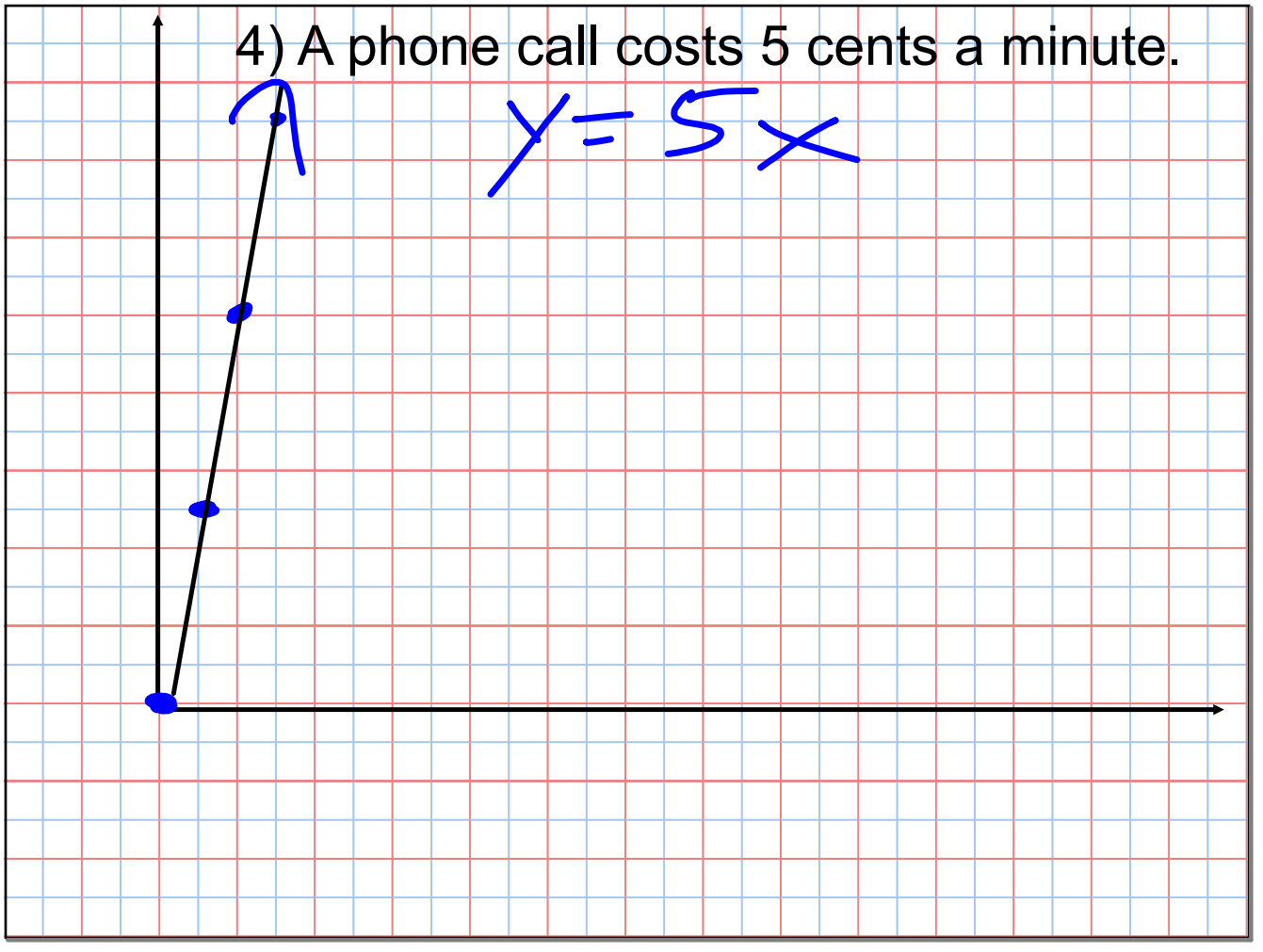
4) A phone call costs 5 cents a minute.



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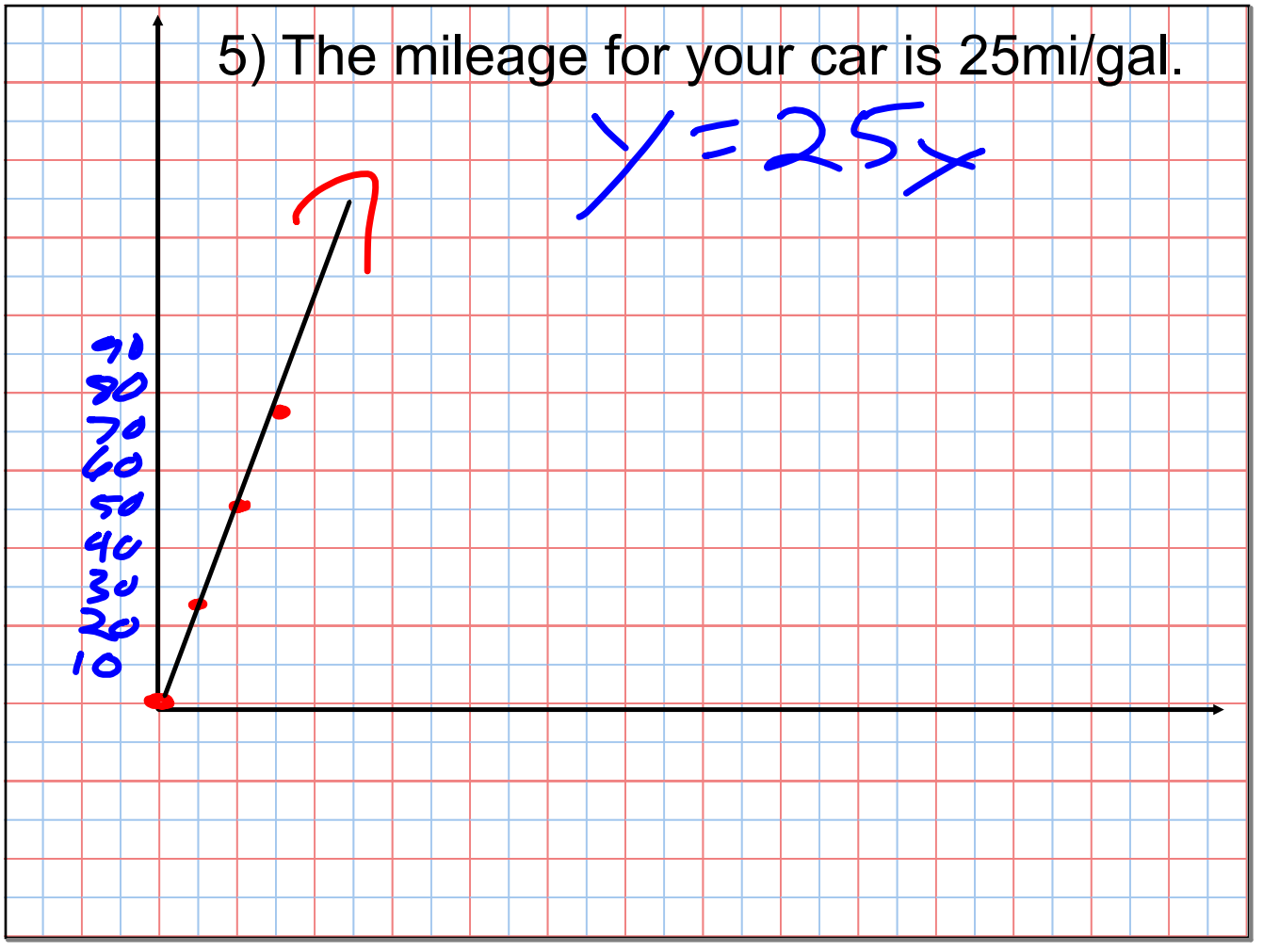
5) The mileage for your car is 25mi/gal.

$y = 25x$



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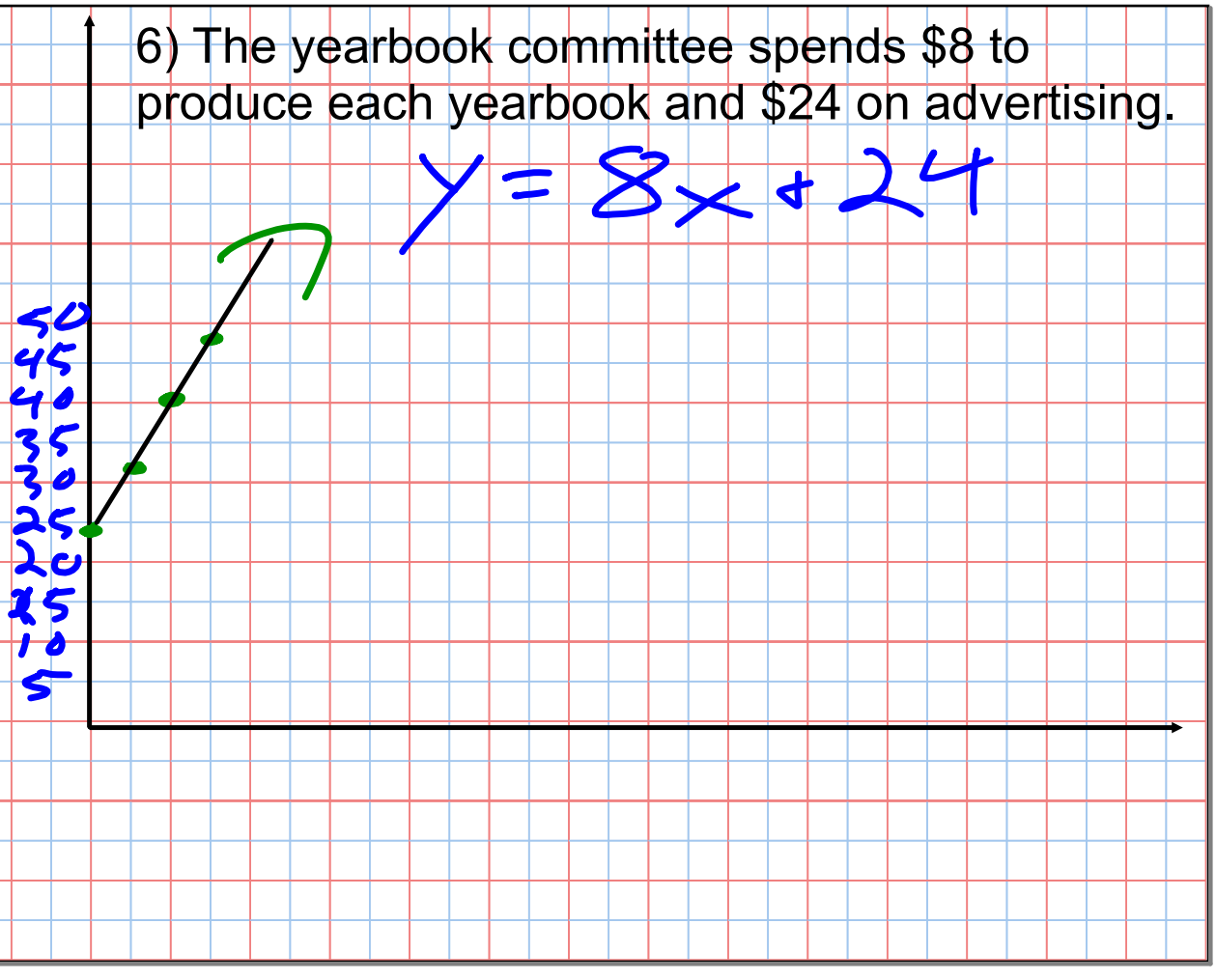
6) The yearbook committee spends $8 to produce each yearbook and $24 on advertising.

$y = 8x + 24$



A website is selling posters for $5 each and charges a shipping fee of $3 on all orders. Write a function to model the situation. What is the total cost of buying 7 posters?

$y = 5x + 3$

$5(7) + 3$

$35 + 3$

$38

A ride in a taxi cab costs $2.50 for the first mile and $1.50 for each additional mile. Write a function that represents the total cost. What is the cost of a 10 mile ride? What is the cost of a 25 mile ride?

$y = 1.50x + 2.50$

$1.50(9) + 2.50$

$16

$1.5(24) + 2.5$

$38.50

Your cell phone bill costs $60/month for a 1000 minute plan. You are charged 5¢ for each additional minute. Write a function to represent the total cell phone bill this month.

$y = 0.05x + 60$

$y = 5x + 6000$

1) You order books through a catalog. Each book costs $12 and the shipping and handling cost of $5 per order. Write a function that represents the total cost of an order. What is the total cost of ordering 6 books? $y = 12x + 5$

$12(6) + 5 = 72 + 5 = \$77$

2) A tree is 3ft tall and grows 3in each day. Write a function to represent the height of the tree.

$y = 3x + 36$ $y = \frac{1}{4}x + 3$

3) Jared has a $2 off coupon off any purchase. He decides to buy bulk dog food for $0.50 per pound. Write a function to represent the total cost of an order. What is the total cost of buying 20 pounds of dog food? $y = 0.50x - 2$

$0.5(20) - 2 = 10 - 2 = \$8$

4) A painter charges $25 for estimate and $40 per hour while he's working.

7"

$y = 40x + 25$

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