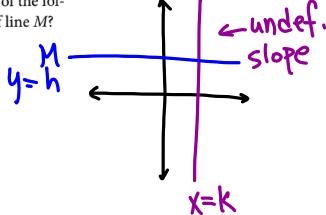
HW Review

- 7. Line L has an undefined slope. Line M is perpendicular to line L. Which of the following could be the equation of line M?
 - A) x = y
 - B) y = 7
 - C) x = -3
 - D) xy = 4



8. A line in the *xy*-plane that passes through

(A)
$$x + 5y = 6$$

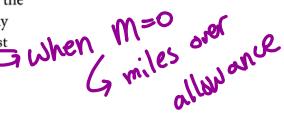
B) $x + \frac{y}{2} = 7$
C) $y - 2x = -9$ $m = \frac{-4 - (-6)}{-7 - 3} = \frac{2}{-10} = -\frac{1}{5}$

D)
$$2y-x=-8$$

$$y = -1x + 6$$

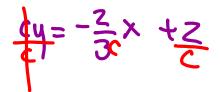
$$m = -1$$

- 9. A car rental agency charges a per day rental fee which includes a daily mileage allowance plus a certain amount per mile driven over the allowance. The graph above compares the miles driven over the allowance and the total cost for a 3-day rental. What does the C-intercept most likely represent in this scenario?



- A) The per day rental fee for renting the car
- The number of miles a renter may drive the car per day
- C) The penalty a renter must pay if the daily mileage allowance is exceeded
- The total cost of a 3-day rental assuming the car is not driven over the allowance

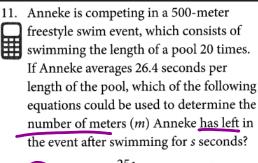
$$\frac{2}{3}x + cy = 2$$



- 10. If the slope of the equation shown above is 6, what is the value of c?
 - A) -4

 - D) 4

slope =
$$\frac{2}{3}c = \frac{6}{18}$$



(A)
$$m = 500 - \frac{25s}{26.4}$$

B)
$$m = 500 - 25s$$

C)
$$m = \frac{25s}{26.4}$$

D)
$$m = 500 - 20s$$

$$m = \frac{25s}{26.4}$$

$$m = 500 - 20s$$

$$dist: 25(\frac{5}{26.4})$$

$$= 5 \text{ Sec} \rightarrow \frac{5}{26.4} \text{ ps}$$

$$Dist = 25(\frac{5}{26.4})$$

$$Dist = 25 \left(\frac{5}{26.4}\right)$$

 $| Lap = \frac{500}{30}$

26.4 sec → lap

52.8 sec -> 2 laps

= 25m

12. If the graph of the equation
$$y = 5x + 3$$
 is shifted down 4 units, what is the x-intercept of the new line?



D)
$$\frac{5}{4}$$

(when
$$y=3/2$$
) $y=5\times-1$
 $0=5\times-1$
 $1=5\times-3\times-5$

13. A new color copier purchased for \$8,500 is expected to depreciate (lose value) according to the equation y = -1,250x + 8,500, where y is the value of the copier x years after it was purchased. The company that bought the copier plans to sell it when

 $1000 = -1250 \times 18500$ $-7500 = -1250 \times$ $6 = \times$

6

$$\frac{3(h+2)-4}{6} = \frac{h(7 \times 2 - 5)}{2}$$

the value is \$1,000 and upgrade to a new one. How many years after the copier is

purchased will the company sell it?

14. In the equation above, what is the value of h?

