Midtern I Solution

#1.
$$6x + 57 x - 10$$

 $5x 7 - 15$
 $x 7 - 3$

$$\frac{42.}{4} - \frac{3}{8} > \frac{2}{5} \times$$

Multiply 40 to both Sides

#3.
$$g(-2) = 2(-2)^2 - 4(-2) + 1 = 17$$
: Auston.

#4.
$$Y(-2)=3-6x-3\cdot(2)^2=-6x-9$$
: Auswer.

#5. The Slope of a 3traight line that is parallel to the line
$$3 \times 1 = -3$$
 is -3 . From the hypothesis, the line passes through $(3,2)$

Slope:
$$-3$$
 \Rightarrow love: $y = -3(x-3)+2$.

The Slope of a Streetht live $y = -3(x-3)+2$.

#6. The Slope of a Straight line that is perpendicular to
$$g = \frac{5}{2}x - 4$$
 is $-\frac{2}{5}$. By assumption the Straight line Contains (2, -5).

$$\langle \text{ Slope } -\frac{2}{5} \rangle = | \text{ line } y = -\frac{2}{5}(x-2)| \text{ Answern.}$$

#8. Three Consecutive integers n-2 n-2 n+2Sum: 3n=84. So n=28.

Three integers are 26, 28 and 30. Assum. #9 Let Width = w, and length = l. It I given that W = 25% of l = 4l. Perimeter = 2(w+l) = 2(4+1)l = 250. (=) lol = 1000. (=) l = 100. W= 4l = 25. l= 100 cm. W= 25 cm Answer #10. Write 4x+9>-1 into 4x+1>-9 and combine with 4x+1<5. - 1 < 4x+1 < 5. (=) -8< 4x < 4 (=) -2< x < 1 Auswer (-2,1) f(c) = 3c+1 = -8 = C=-3. Auswer. (-3, -8) Auswer. $\chi = \frac{q}{3}$ Answer More precisely, the answer y = intercept: 3.0 + 2 y = 4 y = 2Answer More precisely, the answer Should be written in a form of mumber. So $\frac{4}{3}$ is the answer and 2 is the answer.

#13. Slope =
$$\frac{\text{change in Y}}{\text{change in X}} = \frac{-2 - 1}{-1 - 4} = \frac{-3}{-5} = \frac{3}{5}$$
 move

#14.
$$(Slope = \frac{5 - (-3)}{-4 - 0} = \frac{8}{-4} = -2$$
. line: $y = -2x - 3$.

A point: $(0, -3)$

#15.
$$3x + y = 4$$
 and $x+y=2$.

$$3x + y = 2x + x + y = 2x + 2 = 4 . \Rightarrow x = 1.$$

$$\begin{cases} x+y=2 = 3 & y=1. \\ x=1 & x = 1 \end{cases}$$