

Name: _____
 Period _____

Date: _____
 Henderson - Math 8

Homework for Week 9

Monday & Tuesday: HW#9A & 9B

Solve the equations in the space provided below.

Solve each equation. Check your solution.

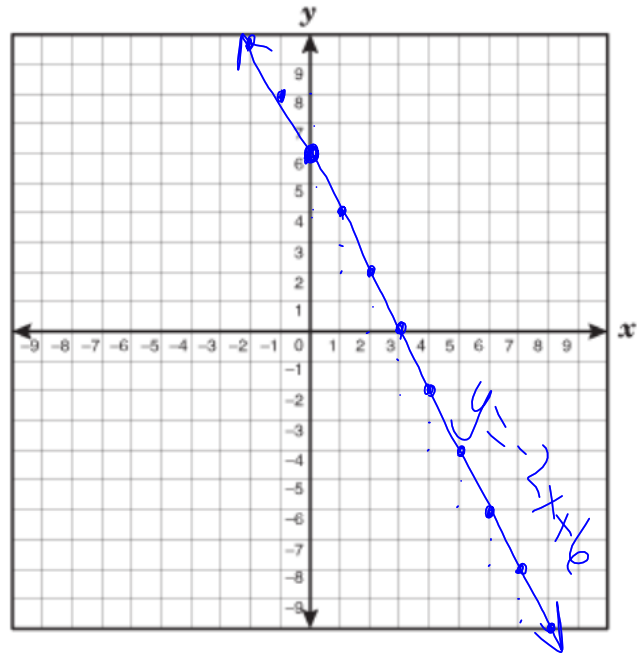
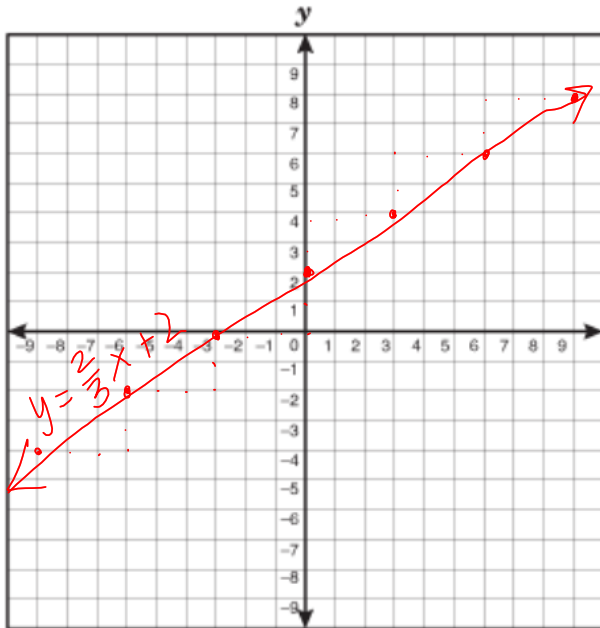
1. $9m + 14 = 2m$ -2 2. $13x = 32 + 5x$ 4 3. $8d - 25 = 3d$ 5
 4. $t - 27 = 4t$ -9 5. $7p - 5 = 6p + 8$ 13 6. $11z - 5 = 9z + 7$ 6
 7. $12 - 5h = h + 6$ 1 8. $4 - 7f = f - 12$ 2 9. $-6y + 17 = 3y - 10$ 3
 10. $3x - 32 = -7x + 28$ 6 11. $3.2a - 16 = 4a$ -20 12. $16.8 - v = 6v$ 2.4

1. $\begin{array}{r} 9m + 14 = 2m \\ -9m \quad -9m \\ \hline 14 = -7m \\ \frac{14}{-7} = \frac{-7m}{-7} \end{array} \quad m = -2$	2. $\begin{array}{r} 13x = 32 + 5x \\ -5x \quad -5x \\ \hline 8x = 32 \\ \frac{8x}{8} = \frac{32}{8} \end{array} \quad m = 4$	3. $\begin{array}{r} 8d - 25 = 3d \\ -8d \quad -8d \\ \hline -25 = -5d \\ \frac{-25}{-5} = \frac{-5d}{-5} \end{array} \quad d = 5$
4. $\begin{array}{r} t - 27 = 4t \\ -t \quad -t \\ \hline -27 = 3t \\ \frac{-27}{3} = \frac{3t}{3} \end{array} \quad m = -9$	5. $\begin{array}{r} 7p - 5 = 6p + 8 \\ -6p \quad -6p \\ \hline 1p - 5 = 8 \\ +5 \quad +5 \\ \hline 1p = 13 \end{array} \quad p = 13$	6. $\begin{array}{r} 11z - 5 = 9z + 7 \\ -9z \quad -9z \\ \hline 2z - 5 = 7 \\ \frac{2z - 5}{+5} = \frac{7}{+5} \\ \frac{2z}{2} = \frac{12}{2} \end{array} \quad m = 6$
7. $\begin{array}{r} 12 - 5h = h + 6 \\ +5h \quad +5h \\ \hline 12 = 6h + 6 \\ -6 \quad -6 \\ \hline 6 = 6h \\ \frac{6}{6} = \frac{6h}{6} \end{array} \quad m = 1$	8. $\begin{array}{r} 4 - 7f = f - 12 \\ +7f \quad +7f \\ \hline 4 = 8f - 12 \\ +12 \quad +12 \\ \hline 16 = 8f \\ \frac{16}{8} = \frac{8f}{8} \end{array} \quad m = 2$	9. $\begin{array}{r} -6y + 17 = 3y - 10 \\ +6y \quad +6y \\ \hline 17 = 9y - 10 \\ +10 \quad +10 \\ \hline 27 = 9y \\ \frac{27}{9} = \frac{9y}{9} \end{array} \quad y = 3$
10. $\begin{array}{r} 3x - 32 = -7x + 28 \\ +7x \quad +7x \\ \hline 10x - 32 = 28 \\ +32 \quad +32 \\ \hline 10x = 60 \\ \frac{10x}{10} = \frac{60}{10} \end{array} \quad x = 6$	11. $\begin{array}{r} 3.2a - 16 = 4a \\ -3.2a \quad -3.2a \\ \hline -16 = 0.8a \\ \frac{-16}{0.8} = \frac{0.8a}{0.8} \end{array} \quad a = -20$	12. $\begin{array}{r} 16.8 - v = 6v \\ +v \quad +v \\ \hline 16.8 = 7v \\ \frac{16.8}{7} = \frac{7v}{7} \end{array} \quad v = 2.4$

Wednesday: HW#9C Graph the following linear equations using their slope and y-int:

13) $y = \frac{2}{3}x + 2$

14.) $y = -2x + 6$



Thursday: HW#9D

SURF For Exercises 1-3, use the graph that shows the average daily wave height as measured by an ocean buoy over a nine-day period.

1. Find the rate of change in the average daily wave height between day 1 and day 3.

$$\frac{12-8}{3-1} = \frac{4}{2} = \frac{2}{1} = 2$$

2. Find the rate of change in the average daily wave height between day 3 and day 7.

$$\frac{14-12}{7-3} = \frac{2}{4} = \frac{1}{2}$$

3. Find the rate of change in the average daily wave height between day 7 and day 9.

$$\frac{11-14}{9-7} = \frac{-3}{2}$$

