

1. Which of the following gives all values of j that satisfy the inequality $3j - 4 \leq 6j + 11$?

- A) $j \leq -5$
- B) $j \geq -5$**
- C) $j \leq 5$
- D) $j \geq 5$

$$\begin{array}{r} -3j \quad -3j \\ \hline \end{array}$$

$$-4 \leq 3j + 11$$

$$\begin{array}{r} -11 \quad -11 \\ \hline \end{array}$$

$$\frac{-15}{3} \leq \frac{3j}{3} \quad -5 \leq j$$

$$j \geq -5$$

NORMAL FLOAT AUTO REAL RADIAN MP

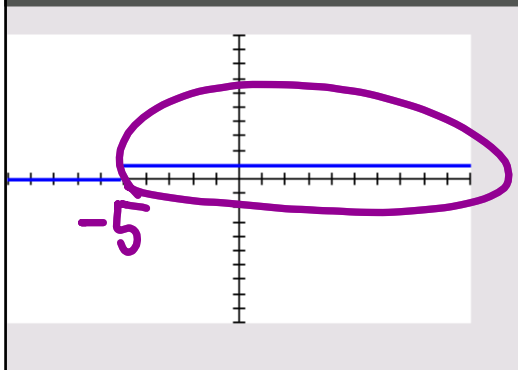
Plot1 Plot2 Plot3

$Y_1 = 3X - 4 \leq (6X + 11)$

$Y_2 =$

$Y_3 =$

NORMAL FLOAT AUTO REAL RADIAN MP



2. Which of the following numbers is not a solution to the inequality $6x - 9 \geq 7x - 5$?

A) -8

B) -5

C) -4

D) -2

NORMAL FLOAT AUTO REAL RADIAN MP 

Plot1 Plot2 Plot3

$\blacksquare Y_1 = (6X-9) \geq (7X-5)$

$\blacksquare Y_2 =$

$\blacksquare Y_3 =$

NORMAL FLOAT AUTO REAL RADIAN MP 

PRESS + FOR $\triangle T \blacksquare 1$

X	Y1			
-6	1			
-5	1			
-4	1			
-3	0			
-2	0			
-1	0			
0	0			
1	0			
2	0			
3	0			
4	0			

X = -3

3. To take the neighbor's children to the movies, Mellie charges \$5 for gas and \$8 per hour spent with the children. Ron charges \$3 for gas and \$8.50 per hour spent with the children. If h represents the number of hours spent with the children, what are all the values of h for which Ron's total charge is greater than Mellie's total charge?



$$R = 8.5h + 3$$

$$M = 8h + 5$$

- A) $h < 3$
 B) $3 < h \leq 4$
 C) $4 \leq h < 5$
 D) $h > 4$

$$8h + 5 < 8.5h + 3$$

$$\begin{array}{r} -3 \qquad \qquad -3 \\ \hline \end{array}$$

$$8h + 2 < 8.5h$$

$$\begin{array}{r} -8h \qquad \qquad -8h \\ \hline \end{array}$$

$$4 < h$$

$$\frac{2}{.5} < \frac{.5h}{.5}$$