Friday

$g(x) = 3x^2 - x + 2$

If x = {-4, -1, 3, 5}, find the domain and range.

$g(-4) = 48 - (-4) + 2$

$g(-1) = 3 - (-1) + 2$

$g(3) = 27 - 3 + 2$

$g(5) = 75 - 5 + 2$

D: {-4, -1, 3, 5}

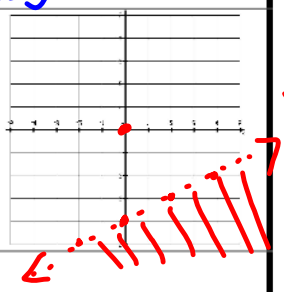
R: {54, 6, 26, 72}

Graph $2x - 4y > 16$.

$-2x \quad -2x$

$\frac{-4y}{-4} > \frac{16 - 2x}{-4} \quad \frac{}{-4}$

$y < \frac{1}{2}x - 4$



Is (-2, -5) a solution to the inequality?

NO

$0 < \frac{1}{2}(0) - 4$

$0 < -4$ F

You are choosing between two jobs. At job A, you pay for a $10 uniform to start and then earn $8 per hour. At job B, you pay for a $25 uniform to start and then earn $9.50 per hour. How many hours do you have to work to have made the same amount at either job? How much will you have made?

$A = 8h - 10$

$B = 9.5h - 25$

$8h - 10 = 9.5h - 25$

$-9.5h \quad -9.5h$

$-1.5h - 10 = -25$

$+10 \quad +10$

$\frac{-1.5h}{-1.5} = \frac{-15}{-1.5}$

$h = 10$

You must work 10 hrs, and make $70.

You are saving up for car insurance. Your parents give you a monthly stipend of $40 and make $8.25 per hour at your job. If you need ***at least*** $135 per month to pay for the car, how many hours would you need to work?

$40 + 8.25h \geq 135$

$-40 \quad -40$

$\frac{8.25h}{8.25} \geq \frac{95}{8.25}$

Work at least 12 hrs.

$h \geq 11.5$

SAT Question:

$g(x) = ax^2 + 24$

For the function g defined above, a is a constant and $g(4) = 8$. What is the value of g(-4)?

A) 8
B) 0
C) -1
D) -8

$8 = a(4)^2 + 24$

$8 = 16a + 24$

$-24 \quad -24$

$\frac{-16}{16} = \frac{16a}{16}$

$a = -1$

$g(-4) = (-1)(-4)^2 + 24$

$-1 \cdot 16$

$-16 + 24 = 8$