$-3x-(2x+8)>6-(4x+6)$

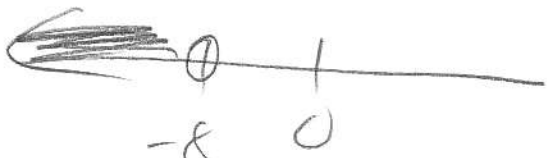
$-3x-2x-8>6-4x-6$

(1) $-5x-8>-4x$

$+5x \qquad +5x$

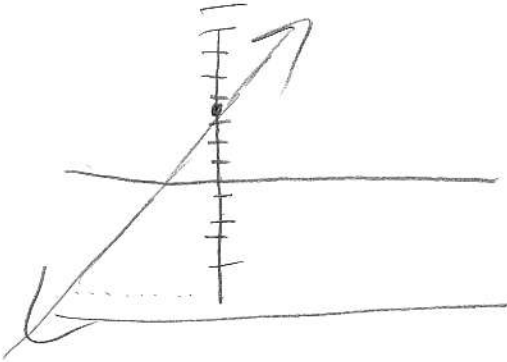
$-8>x$

$x<-8$



(2) $(-4,0)(3,8)$

$\frac{8-0}{3+4}=\frac{8}{7}$



Pt Slope $y-0=\frac{8}{7}(x+4)$

$y=\frac{8}{7}x+\frac{32}{7}$ Slope int.

$7y=8x+32$

$8x-7y=-32$ Std form

$y-8=\frac{8}{7}(x-3)$

or $y-8=\frac{8}{7}(x-3)$

(3)

$$\begin{array}{r} {}^{2}{}^{2} \\ 3\ 4 \\ -2.5\ 7 \\ -2.5\ 6 \\ \hline 1\ 5\ 4\ 2 \\ 1\ 2\ 8\ 5\ 0 \\ 5\ 1\ 4\ 0\ 0 \\ \hline 6.5\ 7\ 9\ 2 \\ +\ 1 \\ \hline 7.5\ 7\ 9\ 3 \end{array}$$

(4)

$y = 3x - 2$

$4x + y = 26$

$4x + (3x - 2) = 26$

$7x - 2 = 26$

$7x = 28$

$x = 4$

$y = 3(4) - 2$

$= 10$

$(4, 10)$

Ck.

$4(4) + 10 = 26$

$16 + 10 = 26$ ✓

(5) $5(x+2y)=(-11)5$

$-5x+y=33$

$5x+10y=-55$

$11y=-22$

$y=-2$

$x+2(-2)=-11$

$x-4=-11$

$x=-7$

$(-7,-2)$

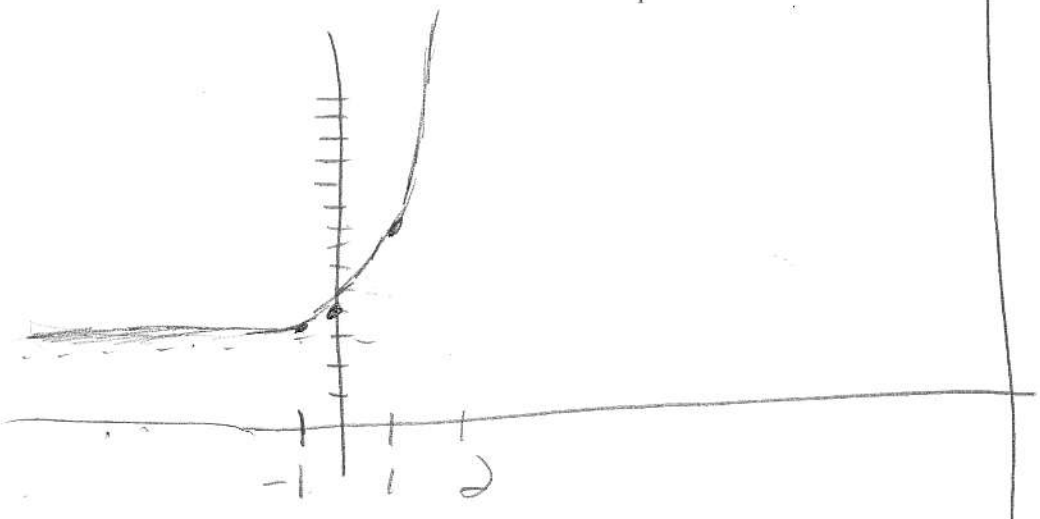
ck.

$-5(-7)+-2=33$

$35-2=33$ ✓

(6)

x	5^x+3	y
-1	$5^{-1}+3$	$\frac{1}{5}+3 \to 3\frac{1}{5}$
0	5^0+3	4
1	5^1+3	8
2	5^2+3	28



(7) $a=36200$

$b=\frac{100-5}{100}$

$y=ab^x$

$y=36200(.95)^x$

$y=36200(.95)^{12}$

$\$19,561$

(8) $\frac{a}{c} = \frac{d}{r}$ $\boxed{a = \frac{cd}{r}}$

(9) $y = -3x + 571$

$y = -3(13) + 571$

$y = -39 + 571$

532,000 toys

(10) $\frac{2.04}{9.25} =$ $\frac{3.44}{13.75} =$

$0.22/ounce $0.25/

The 9.25 ounce can is the better deal,