Solve. $5(R+3)-7(R+2)\geq 23$

$5R+15-7R-14$

$-2R+1\geq 23$

$-1\quad -1$

$-2R\geq 22$

$\frac{-2R}{-2}\geq\frac{22}{-2}$

$R\leq -11$

$6(m+3)-2(m-4n)+8(6m-5n)+\frac{7}{3}(12m+9n)$

$6m+18+8n$

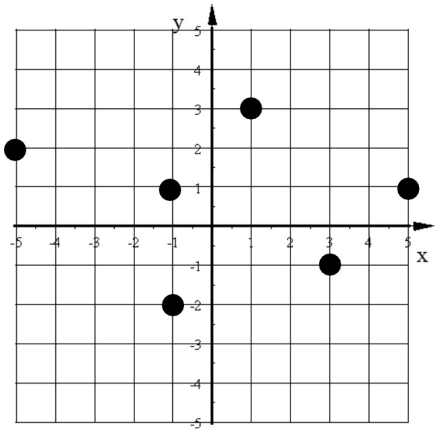
$-2m\quad -40n$

$48m\quad 21n$

$28m$

$80m+18-11n$

State the Domain and Range of this graph



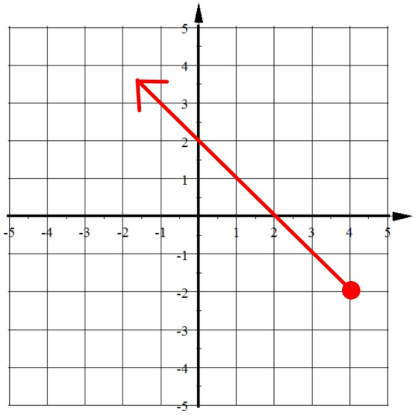
Domain:

-5,-1,1,3,5

Range:

-2, 1, 1, 2, 3

State the Domain and Range of this graph



Domain: $x \leq 4$

Range: $y \geq -2$

Use these functions:

$g(x) = 2x + 3$ $\quad 2(2)+3 = 7$

$h(w) = w^2 - 4$ $\quad 9-4 = 5$

$m(p) = \frac{p+4}{3}$ $\quad \frac{17+4}{3} = \frac{21}{3} = 7$

Find the value of:

$5g(2) - 2h(3) + 10m(17)$

$5(7) \quad -2(5) \quad +10(7)$

$35 \quad -10 \quad +70$

$= 95$

Find the rate of change. Include units.

Rate of Change is slope with units.

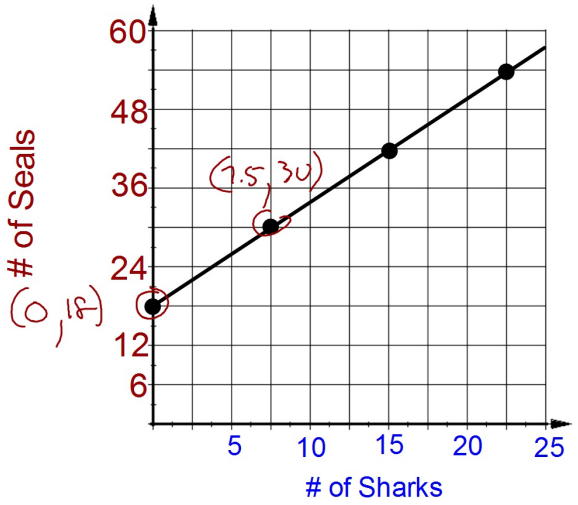
Elephants	Gallons of Water
14	893
20	1217
25	1487

Δx: $20-14 = 6$

$\Delta y = 1217 - 893 = 324$

$\frac{324}{6} = 54$

54 gallons/elephant



Find the rate of change. Include units

$\frac{\Delta y}{\Delta x} = \frac{30-18}{7.5-0}$

$\frac{12}{7.5}$

1.6 seals/shark

Write the equation of the line that passes through these two points in Slope-Intercept Form,

(-8,17)&(4,8)

$m = \frac{17-8}{-8-4} = \frac{9}{-12}$

$m = -\frac{3}{4}$

Take the slope and one of the points, write the equation in Point-Slope Form then change it into Slope-Intercept Form

$y - 8 = -\frac{3}{4}(x-4)$

$y - 8 = -\frac{3}{4}x + 3$ (+8 +8)

$y = -\frac{3}{4}x + 11$