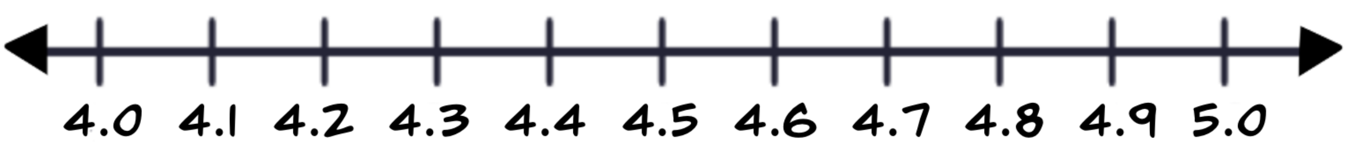
-2^4 $\qquad (-2)^4$

5^0 $\qquad \dfrac{1}{5}$

$(x^3)^2 < x^9$

$m^4 * m^3 > m^4 + m^3$

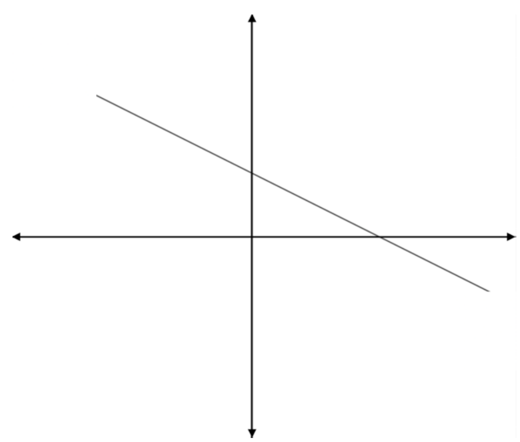


Developed by Maine DOE and MMSA Last Updated: June 2023
(Printer settings: “Flip on long edge” and “Print on both sides” to line up correctly.)

1_G8 1_G8

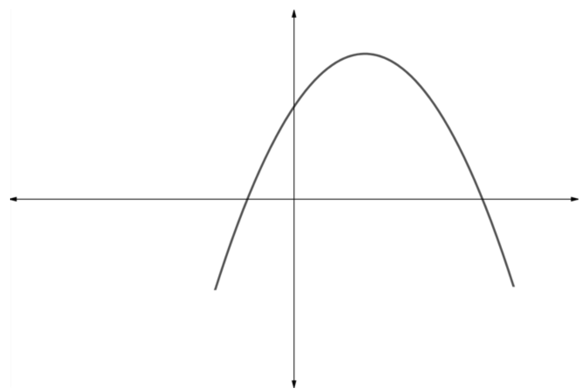
1_G8 1_G8

2_G8

$\sqrt{21}$	$\sqrt[3]{64}$
$4.\overline{31}$	$3.2\times10^{6} + 4.8\times10^{6}$
$\dfrac{8\times10^{5}}{2\times10^{8}}$	

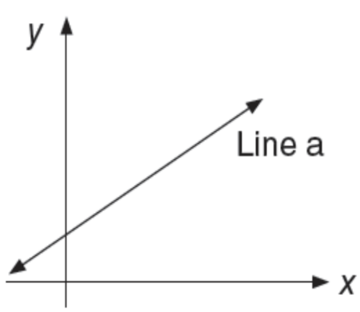
2_G8	2_G8
3_G8	2_G8
4_G8	3_G8

$$y = 2x - 7$$



$$4x^2 = y$$

Input	Output
-2	7
-1	7
0	7
1	7



$$y = \frac{3}{4}x + 6$$

4_G8

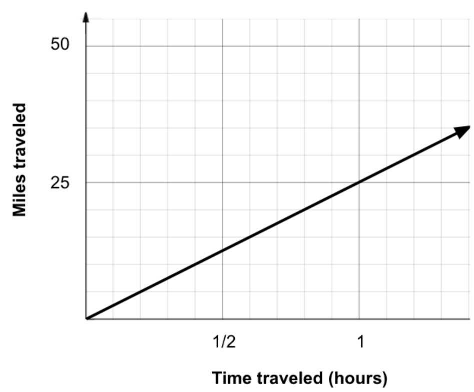
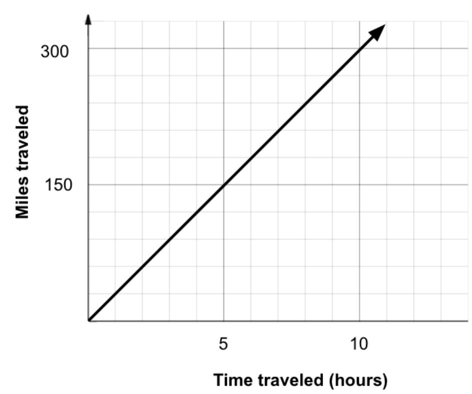
4_G8

4_G8

4_G8

5_G8

5_G8

$y = -5x + 3$	$y = 12x + 36$
A. Car 1 $d = 30t$	A. Car 2 
B. Car 1 $d = 50t$	B. Car 2 

5_G8

5_G8

6_G8

6_G8

6_G8

6_G8

$-32 = 7x + 3$	$4(3x + 2) = 5x - 6$
$y = \frac{3}{5}x + 9$ $5y = 3x - 10$	$y = -7x + 16$ $y = \frac{3}{4}x + 8$
$5x - 7y = 3$ $-15x + 21y = -9$	Laura is four years older than her sister Sally. Laura's brother is five years younger than Sally. The sum of all of their ages is 83. Let *s* represent Sally's age.

7_G8

7_G8

8_G8

8_G8

9_G8

8_G8

$(s + 4 - 5) = 83$	$(s + 4) + s + (s - 5) = 83$
$3(s + 4 - 5) = 83$	$3s - 1 = 83$
300 tickets for a concert were sold. Some VIP tickets cost $20, while the rest of the tickets cost $15. The concert made $1,430 in ticket sales. Let v represent the VIP tickets and r represent the regular price tickets.	System A $20r + 15v = 300$ $20v + 15r = 1,430$

9_G8

9_G8

9_G8

9_G8

9_G8

9_G8

System B $r + v = 35$ $1,430 = 300(r + v)$	System C $r + v = 300$ $20v + 15r = 1,430$
$<$ $>$ $=$	

9_G8

9_G8

1_G8
(Cut separately)