Geometry Honors	Name		ID: 1
Summer Assignment	in fights fostived.	Date	Period
Solve each equation.			
· · · · · · · · · · · · · · · · · · ·	,		

1) 
$$4(1+5x) = 144$$
  
2)  $-6 + 8(2b+4) = 106$ 

3) 8(5v+1) = 8 - 4v4) -8(8+4p) = -7p + 11

5) 
$$-7(n-7) = -5(n-5)$$
  
6)  $2m - (1+3m) = -(m-3)$ 

Find the distance between each pair of points. Simplify the radical, do not put it in decimal form.

9) (5, -2), (6, 0)







# Solve each proportion.

13) 
$$\frac{2}{p} = \frac{7}{6}$$
 14)  $\frac{m-3}{2} = \frac{5}{4}$ 

15) 
$$\frac{p+5}{6} = \frac{p}{3}$$

© 2025 Kuta Software LLC. All rights reserved.-2-Made with Infinite Algebra 1.

16) Yellowstone National Park is a popular field trip destination. This year the senior class at High School A and the senior class at High School B both planned trips there. The senior class at High School A rented and filled 9 vans and 14 buses with 513 students. High School B rented and filled 9 vans and 1 bus with 162 students. Each van and each bus carried the same number of students. How many students can a van carry? How many students can a bus carry?

17) The school that DeShawn goes to is selling tickets to a play. On the first day of ticket sales the school sold 8 senior citizen tickets and 12 student tickets for a total of \$180. The school took in \$167 on the second day by selling 8 senior citizen tickets and 11 student tickets. What is the price each of one senior citizen ticket and one student ticket?

18) The state fair is a popular field trip destination. This year the senior class at High School A and the senior class at High School B both planned trips there. The senior class at High School A rented and filled 4 vans and 10 buses with 602 students. High School B rented and filled 10 vans and 6 buses with 422 students. Every van had the same number of students in it as did the buses. How many students can a van carry? How many students can a bus carry?

19) Joe's school is selling tickets to a play. On the first day of ticket sales the school sold 7 adult tickets and 11 child tickets for a total of \$249. The school took in \$231 on the second day by selling 3 adult tickets and 13 child tickets. What is the price each of one adult ticket and one child ticket?

#### Simplify each expression.

20) 
$$-2x - 4x$$
 21)  $-6x + 6x$ 

22) 
$$9(-4+4n)$$
 23)  $6(3+7x)$ 

24) 
$$9(3+3m) - 8m$$
 25)  $6(-8+x) - 1$ 

26) 
$$-k - 5k(-4 + 10k)$$
 27)  $8x + 3x(x + 2)$ 

# Find the slope of each line.



### Find the slope of the line through each pair of points.

29) (-9, 3), (4, 10)

### Find the slope of each line.

30) y = x + 3

Find the slope of a line parallel to each given line.

31) y = 0

Find the slope of a line perpendicular to each given line.

32) 
$$y = \frac{3}{5}x + 1$$