

AP Calculus  
Equations of Lines Review

Name \_\_\_\_\_

Date \_\_\_\_\_

Find the slope.

1.  $(7, -5)$   $(8, 4)$

2.  $(2\frac{2}{3}, 0)$   $(-\frac{1}{3}, 3)$

Find the distance.

3.  $(-2, \frac{5}{3})$   $(-2, \frac{2}{3})$

4. Find *four* points on the line:  $y = -7x$

5. Which points are on the line:  $y = \frac{1}{2}x$ ?

$A(4, 2)$   $B(-3, 1\frac{1}{2})$   $C(0, \frac{1}{2})$   $D(-6, -3)$

6. Which points are on the line:  $2x + 8y = 0$ ?

$A(0, 0)$   $B(8, -2)$   $C(-1, \frac{1}{4})$   $D(1, -\frac{1}{4})$

7. Find the missing coordinates, so that each point is on the line:  $-15y - 6x = 0$ .

$(, \frac{2}{5})$   $(5, )$   $(, -10)$

8. Find the missing coordinates, so that each point is on the line:  $-12x + 2y = 0$ .

$(, -18)$   $(\frac{1}{2}, )$   $(, 4)$

Write the equation of the line.

9. slope =  $\frac{1}{5}$ ,  $y$ -intercept = 2

10. slope = 1, contains point  $(-4, -6)$

11. slope =  $-6$ , contains point  $(-1, 0)$

12. slope =  $-4$ , contains point  $(1, -3)$

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13. slope =  $\frac{5}{6}$ , contains point (12, 10)

18. passes through  $(-8, 6)$  and  $(0, 6)$

14. horizontal, passes through  $(3, -9)$

19. What is the slope of all lines perpendicular to the  $y$ -axis?

15. vertical, contains the point  $(4, 7)$

20. What is the slope of all lines parallel to  $8x - 2y = 5$ ?

16. undefined slope, passes through  $(4, 1)$

21. Write the equation of the line that contains  $(-1, 7)$  and is parallel to the line  $y = -2x - 5$ .

17. passes through  $(5, -3)$  and  $(5, -9)$

1.  
Answer: 9  
CodePath: EAS.ALG.P.A.15
2.  
Answer:  $-1$   
CodePath: EAS.ALG.P.A.56
3.  
Answer: 1  
CodePath: EAS.ALG.P.C.11
4.  
Answer: [points]  
CodePath: EAS.ALG.P.D.1
5.  
Answer:  $A, D$   
CodePath: EAS.ALG.P.D.27
6.  
Answer: all  
CodePath: EAS.ALG.P.D.34
7.  
Answer:  $-1, -2, 25$   
CodePath: EAS.ALG.P.D.49
8.  
Answer:  $-3, 3, \frac{2}{3}$   
CodePath: EAS.ALG.P.D.50
9.  
Answer:  $y = \frac{1}{5}x + 2$   
CodePath: EAS.ALG.P.F.4
10.  
Answer:  $y = x - 2$   
CodePath: EAS.ALG.P.F.14
11.  
Answer:  $y = -6x - 6$   
CodePath: EAS.ALG.P.F.15
12.  
Answer:  $y = -4x + 1$   
CodePath: EAS.ALG.P.F.18
13.  
Answer:  $y = \frac{5}{6}x$   
CodePath: EAS.ALG.P.F.48
14.  
Answer:  $y = -9$   
CodePath: EAS.ALG.P.F.60

15.  
Answer:  $x = 4$   
CodePath: EAS.ALG.P.F.55
16.  
Answer:  $x = 4$   
CodePath: EAS.ALG.P.F.68
17.  
Answer:  $x = 5$   
CodePath: EAS.ALG.P.F.88
18.  
Answer:  $y = 6$   
CodePath: EAS.ALG.P.F.89
19.  
Answer: 0  
CodePath: EAS.ALG.P.H.4
20.  
Answer: 4  
CodePath: EAS.ALG.P.H.17
21.  
Answer:  $y = -2x + 5$   
CodePath: EAS.ALG.P.H.37