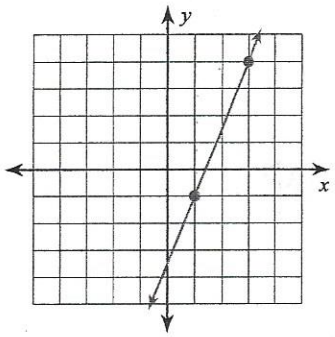
Algebra 1

Name Key

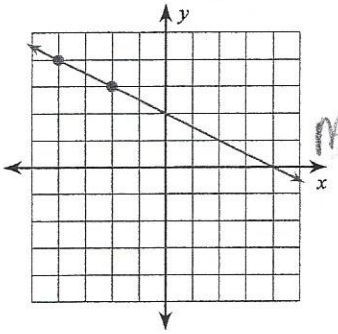
Slope

Date _____

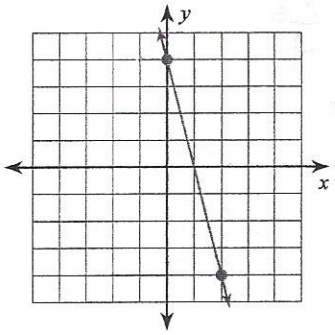
Find the slope of each line.

1) 

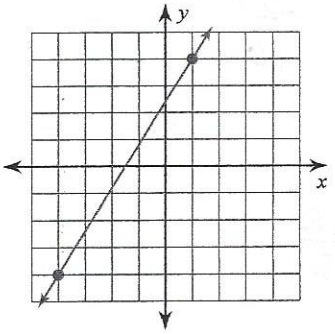
$m = \frac{5}{2}$

2) 

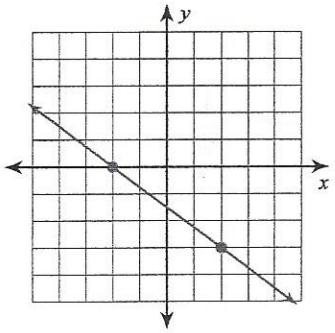
$m = -\frac{1}{2}$

3) 

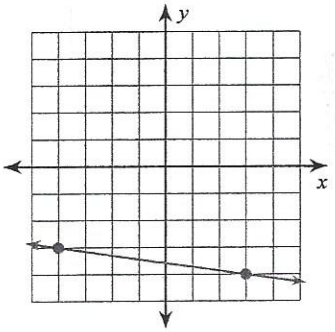
$m = -4$

4) 

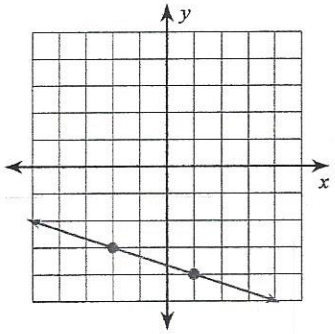
$m = \frac{8}{5}$

5) 

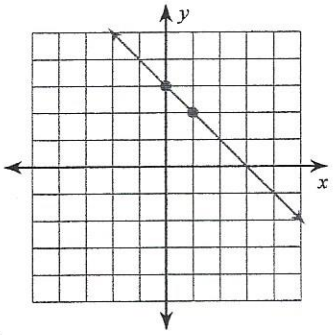
$m = -\frac{3}{4}$

6) 

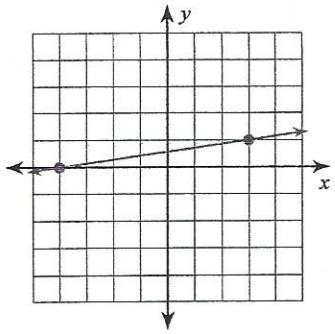
$m = -\frac{1}{7}$

7) 

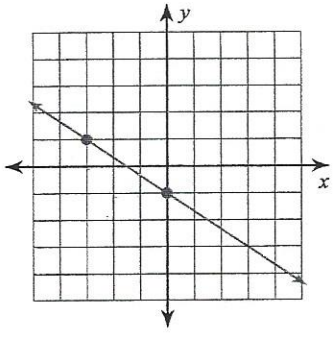
$m = -\frac{1}{3}$

8) 

$m = -1$

9) 

$m = \frac{1}{7}$

10) 

$m = -\frac{2}{3}$

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

11) $(15, -4), (7, 8)$

$m = \frac{-4-8}{15-7} = \frac{-12}{8} = \boxed{\frac{-3}{2}}$

12) $(3, 16), (-5, 14)$

$m = \frac{16-14}{3-(-5)} = \frac{2}{8} = \boxed{\frac{1}{4}}$

13) $(16, -8), (-3, 8)$

$m = \frac{-8-8}{16-(-3)} = \boxed{\frac{-16}{19}}$

14) $(11, 10), (-8, 10)$

$m = \frac{10-10}{11-(-8)} = \frac{0}{19} = \boxed{0}$

15) $(-1, 9), (9, -18)$

$m = \frac{9-(-18)}{-1-9} = \frac{27}{-10} = \boxed{\frac{-27}{10}}$

16) $(15, -12), (6, 10)$

$m = \frac{-12-10}{15-6} = \boxed{\frac{-22}{9}}$

17) $(15, 18), (0, -4)$

$m = \frac{18-(-4)}{15-0} = \boxed{\frac{22}{15}}$

18) $(0, 3), (19, 0)$

$m = \frac{3-0}{0-19} = \frac{3}{-19} = \boxed{\frac{-3}{19}}$

19) $(5, 3), (-3, -6)$

$m = \frac{3-(-6)}{5-(-3)} = \boxed{\frac{9}{8}}$

20) $(18, 20), (-17, 13)$

$m = \frac{20-13}{18-(-17)} = \frac{7}{35} = \boxed{\frac{1}{5}}$

Solve for y.

21) $3x - y = -1$

$-3x \quad -3x$

$\frac{-y}{-1} = \frac{-3x-1}{-1}$

$\boxed{y = 3x+1}$

22) $7x + 5y = 10$

$-7x \quad -7x$

$\frac{5y}{5} = \frac{-7x+10}{5}$

$\boxed{y = \frac{-7}{5}x + 2}$

23) $x - 2y = 0$

$-x \quad -x$

$\frac{-2y}{-2} = \frac{-x+0}{-2}$

$\boxed{y = \frac{1}{2}x}$

24) $3x + 2y = 2$

$-3x \quad -3x$

$\frac{2y}{2} = \frac{-3x+2}{2}$

$\boxed{y = \frac{-3}{2}x + 1}$

25) $4x + y = 5$

$-4x \quad -4x$

$\boxed{y = -4x+5}$

26) $3x - 2y = 6$

$-3x \quad -3x$

$\frac{-2y}{-2} = \frac{-3x+6}{-2}$

$\boxed{y = \frac{3}{2}x - 3}$