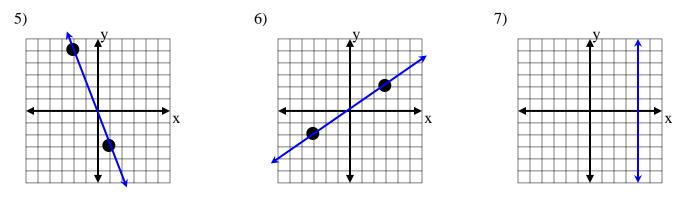
EXERCISE A

Change each equation into slope-intercept form (y = mx + b), then name its slope and y-intercept.

1) 2y = 3x - 18 2) x - y = 2 3) 2x + 4y = 9 4) $\frac{y}{5} = -3$

Use the graphs shown below to find the slope (rise over run).



Find the slope of the line that passes through each pair of points. $m = \frac{y_2 - y_1}{x_2 - x_1}$

8) (-2, -1) & (2, -3) 9) (2, 2) & (4, 2) 10) (4, 5) & (-1, 0) 11) (-7, 3) & (-7, 2)

Graph the line that satisfies each set of conditions.

- 12) Passes through (0, 3), parallel to the graph of 6y 10x = 30.
- 13) Passes through (1, 1), parallel to a line whose slope is -1.
- 14) Passes through (4, -2), perpendicular to the graph of $y = \frac{3}{2}x + 3$
- 15) Passes through (-1, 5), perpendicular to the graph of 5x 3y 3 = 0

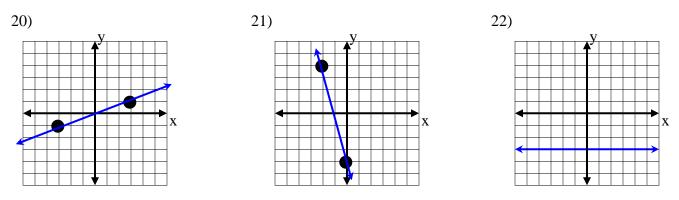
EXERCISE B

Change each equation into slope-intercept form (y = mx + b), then name its slope and y-intercept.

16) 4y + 3x = 20 17) -7x = -21 18) $2x - \frac{y}{3} = 1$ 19) 8y - 2x - 3 = 0

SECTION 1-3

Use the graphs shown below to find the slope (rise over run).



Find the slope of the line that passes through each pair of points. $m = \frac{y_2 - y_1}{x_2 - x_1}$

23) (4, -1) & (6, -6) 24) (-8, -3) & (2, 3) 25) (4, -1.5) & (4, 4.5) 26) (4, 9) & (11, 9)

Graph the line that satisfies each set of conditions.

- 27) Passes through (-2, 2), parallel to a line whose slope is -1.
- 28) Passes through the origin, parallel to the graph of x + y = 10.
- 29) Passes through (2, -1), perpendicular to the graph of 2x + 3y = 6.
- 30) Passes through (-4, 1), perpendicular to a line whose slope is $-\frac{3}{2}$

EXERCISE C

31) Graph the line that passes through (-2, 3), perpendicular to the graph of a line that passes through (8, -1) & (4, -4).

32) Determine the value of r so that the line that passes through (5, r) & (2, 3) has slope of 2.



33) The Washington Monument is approximately 555 feet, 5 inches tall and weighs 90,854 tons. The monument is topped by a square based aluminum pyramid. The sides of the pyramid's base all measure 5.6 inches. The pyramid is 8.9 inches tall. Estimate the slope that a face of the pyramid makes with its base. *Hint*: *draw a pyramid*, *and remember slope = rise over run*.

ANSWERS:			
1) $y = 3/2x - 9$	5) $m = -8/3$	19) $y = 1/4x + 3/8$	27-31) See Mr.
m = 3/2	7) $m = 0$	m = 1/4	Paull
b = -9	9) $m = 0$	b = 3/8	33) about 3.2
3) $y = -1/2x + 9/4$	11) undefined	21) $m = -4$	(or 89/28)
m = -1/2	12-15) See Mr. Paull	23) $m = -5/2$	
b = 9/4	17) $x = 3$	25) undefined	