Math 80 Fall 2009 Test #2: Chapters 3 and 4			a study preparation tool. blems on current tests may		
Name	Sample tests are a good beginning point in your test preparation but it is recommended that you don't use sample tests as your only study resource				
MULTIPLE CHOICE. CI	noose the one alternative that be	est completes the sta	tement or answers the question.		
Express the statement as an algebraic expression. 1) Alexander is t years old. Write an expression that represents Benjamin's age if he is 6 times as old as Alexander.					
A) 6t	B) 6t + t	C) 6/t	D) 6 + t		
of the variable selected. 2) The average time	sent one quantity and state what ne it takes to get through a check nes the time it takes to get throug	out line at a large v		ity in terms 2)	
B) let $s = tim$ C) let $s = tim$	the at small store, then $11 \cdot 4 + s = ti$ the at small store, then $4s + 11 = ti$ the at small store, then $11s + 4 = ti$ the at small store, then $(11 + 4)s = t$	me at large club me at large club			
Write an equation to repr 3) Scot and Elizab 66.98.	resent the problem. eth ate dinner at an upscale bistr	o. The cost of their r	neals plus a 22% tip was \$	3)	
A) $x + 22x = 0$ C) $x + 0.22x = 0$		B) $x + 2.2x = 6$ D) $x + 0.22 = 6$			
4) When Milo got	an be used to solve the problem promoted at work, he received a nnual salary before his raise?	-	n and answer the question asked ow earns \$71,400 per year.	4)	

C) \$68,000

D) \$71,400

B) \$3570

A) \$3400

Solve the problem.

- 5) The length of a rectangular storage room is 4 feet longer than its width. What are the dimensions of the room if the area of the room is 77 square feet?
- 5) _____

- A) 6 ft by 10 ft
- B) 8 ft by 12 ft
- C) 7 ft by 11 ft
- D) 6 ft by 12 ft

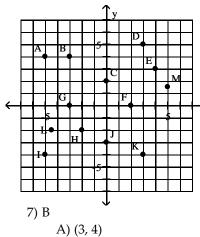
Set up an equation that can be used to solve the problem. Solve the equation and answer the question asked.

6) Linda and Dave leave simultaneously from the same starting point biking in opposite directions.

Linda bikes at 6 miles per hour and Dave bikes at 10 miles per hour. How long will it be until they are 27 miles apart from each other?

- A) 6.8 hours
- B) 0.5 hours
- C) 1.7 hours
- D) 0.6 hours

List the ordered pair corresponding to the point.



- B) (-3, 4)
- C) (4, 3)
- D) (4, -3)

8) $m_1 = \frac{5}{8}$, $m_2 = \frac{8}{5}$

8)

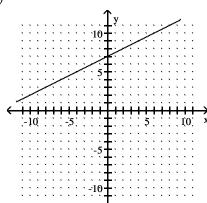
A) parallel

- B) perpendicular
- C) neither

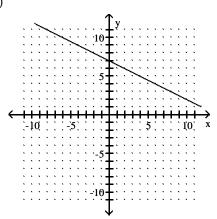
Graph by plotting points. Plot at least three points for the graph. 9) 2x – 4y = 28



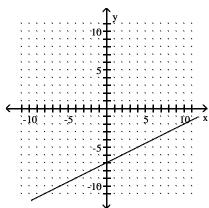
- A)



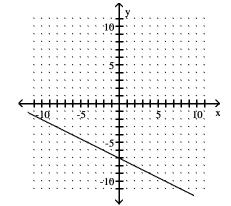
B)

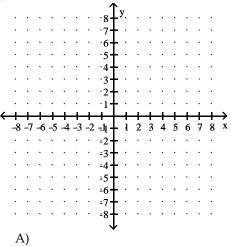


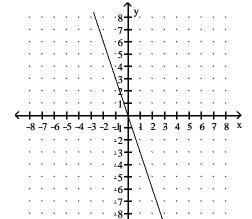
C)



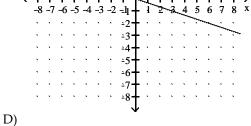
D)



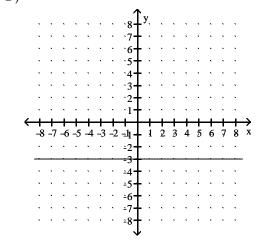


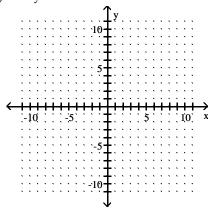


B)

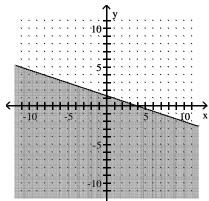


C)

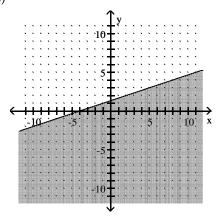




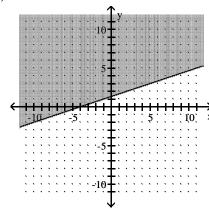
A)



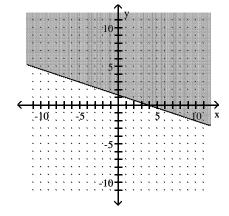
C)



B)



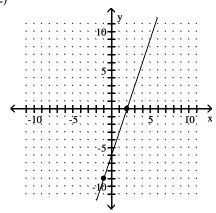
D)



By observing the vertical and horizontal change of the line between the two points indicated, determine the slope of the line.

12)





A)
$$m = 3$$

B)
$$m = -\frac{1}{3}$$
 C) $m = \frac{1}{3}$

C) m =
$$\frac{1}{3}$$

D)
$$m = -3$$

Determine the slope and y-intercept of the line represented by the given equation.

13)
$$y = \frac{5}{6}x - \frac{5}{2}$$

A) m =
$$\frac{5}{6}$$
; y-intercept is $(0, -\frac{5}{2})$

B) m =
$$-\frac{5}{6}$$
; y-intercept is $(0, \frac{5}{2})$

C)
$$m = \frac{6}{5}$$
; y-intercept is $(0, \frac{5}{2})$

D) m =
$$-\frac{5}{2}$$
; y-intercept is $(0, \frac{5}{6})$

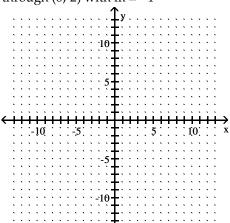
Find the slope of the line through the given points.

A) m =
$$\frac{6}{13}$$

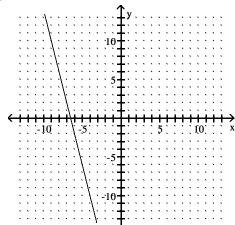
B)
$$m = -\frac{6}{13}$$

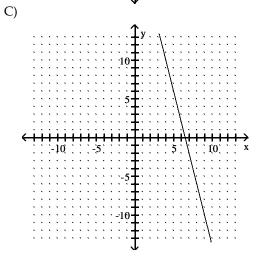
D) m =
$$-\frac{13}{6}$$

15) through (6, 2) with m = -4

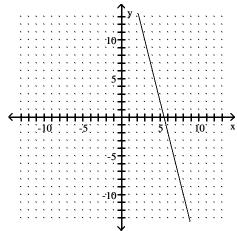


A)

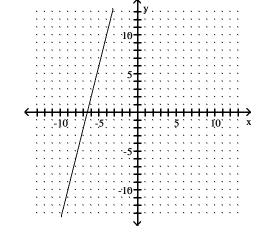




B)



D)



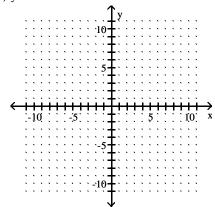
Express the statement as an algebraic expression.

16) Twice the sum of a number and 50

16) _____

Graph using the x- and y-intercepts.

17)
$$y = -2x + 7$$



17) _____

Write the equation of the line, with the given properties, in slope -intercept form.

18) Slope = 3, through (-8, -7)

18) _____

19) Through (-6, -8	and (-5, -3)
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19) _____

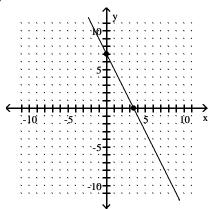
Set up an equation that can be used to solve the problem. Solve the equation and answer the question asked.

20) The manager of a coffee shop has one type of coffee that sells for \$6 per pound and another type that sells for \$15 per pound. The manager wishes to mix 100 pounds of the \$15 coffee to get a mixture that will sell for \$10 per pound. How many pounds of the \$6 coffee should be used?

20)	
,	

- 1) A
- 2) B
- 3) C 4) C 5) C

- 6) C
- 7) B
- 8) C
- 9) C
- 10) D
- 11) D
- 12) A
- 13) A
- 14) B
- 15) C
- 16) 2(x + 50)
- 17)



- 18) y = 3x + 17
- 19) y = 5x + 22
- 20) 125 pounds