1: Apply the Distributive property: 
$$5(x+y+2)$$
 2: Sim

- 3: Find the prime factorization of 40.
- 5: Perform the indicated operation 25 (-12) 7 (-2) + 9

7: Evaluate 
$$45 \div 3 \bullet a$$
, for  $a = -1$ 

9: Evaluate 
$$45 \div 3^2 x (x-1)$$
, for  $x = 3$ 





13: Find the x and y intercepts of this equation

## x + 3y = 6 THEN graph it



Page 1 OF 4



14: Divide  $\frac{7}{6} \div \frac{3}{5}$ 

**15:** Perform the indocated operation  $25 \div 5^2 \cdot 6$ 

Simplify: 
$$\frac{14}{21}$$

4: Simplify the following expression: |-58| =

6: Perform the indicated operation:  $19 - 5 \cdot 3 + 3$ 

8: Solve for x: 
$$\frac{2}{3} + \frac{1}{4}x = 6$$

10: Solve this equation for x:  $\frac{4}{5}x = 16$ 

## MATH 90, SECTION 1069 PRACTICE TEST 3

Write an equation for each of the following two graphs. Place the equation below each graph.



18: The following graph shows data from a recent train ride from Chicago to St. Louis. At what rate did the train travel?



19 At 2:00 PM, Perry rented a mountain bike from the Slick Rock Cyclery. He returned the bike at 5:00 PM after cycling 18 miles.Perry paid \$12 per our for the rental.

- (a) What was Perry's average speed in miles per hour?
- (b) What was the rental rate in dollars per hour?
- (c) What was his rate in dollars per mile/

Prob 20, 21 and 22 Write the slope of the line below each of the following three graphs.



PRACTICE\_TEST3.doc 3/6/2008 Page 2 OF 4 23: Find the slope of the line containing the following pair of points (-2,4) and (3,0)

24 Draw a line that has the given slope and y-intercept: Slope =  $-\frac{6}{7}$ , and y-intercept (0, 5)



25 Find the slope-intercept **equation** of the line that has the given characteristics  $Slope: -\frac{15}{11}$  and y-intercept (0,-9)

26: Are the lines described by this pair of equations parallel?

2x + 2 = y2y = 4x - 9

27: Multiply:  $W^4 \bullet W^2$ 

28: Divide and simplify 
$$\frac{5^6}{5^3}$$
 29 Divide and simplify  $\frac{3^8 m^5}{3^3 m^3}$ 

30: Evaluate  $n^0$  when n = -18

PRACTICE\_TEST3.doc 3/6/2008 Page 3 OF 4

## MATH 90, SECTION 1069 PRACTICE TEST 3

31: Rewrite the following polynomial in proper order then identify the terms, the coefficients of each term , the degree of each term and, finally, state the degree of the polynomial.  $x^2 - 6 + x^6 - 6x^3$ 

(a) Polynomial in proper order:

(b)Identification

)			
TERM	COEFFICIENT	DEGREE	DEG OF POLY

32: Evaluate the following polynomial for 
$$x = 4$$
  $2x^2 - 3x + 6$ 

 $\left(\frac{m^3}{b^2}\right)^3$ 33: Simplify