$\qquad$

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

3: Find the prime factorization of 40 .

5: Perform the indicated operation $25-(-12)-7-(-2)+9$

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

9: Evaluate $45 \div 3^{2} x(x-1)$, for $x=3$
11. Graph $y=\frac{1}{3} x$


13: Find the $x$ and $y$ intercepts of this equation
$x+3 y=6$ THEN graph it


2: $\quad$ Simplify: $\frac{14}{21}$
4: Simplify the following expression: $|-58|=$

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

8: $\quad$ Solve for $\mathrm{x}: \frac{2}{3}+\frac{1}{4} x=6$
10: Solve this equation for $\mathrm{x}: \frac{4}{5} x=16$
12. Graph: $8 x-4 y=12$


15: Perform the indocated operation $25 \div 5^{2} \cdot 6$
$\qquad$

Write an equation for each of the following two graphs. Place the equation below each graph.
16.


17:


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.


SLOPE $=$



SLOPE $=$

22


SLOPE $=$

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$\qquad$

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?

$$
\begin{aligned}
& 2 x+2=y \\
& 2 y=4 x-9
\end{aligned}
$$

27: Multiply: $w^{4} \bullet w^{2}$

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

30: Evaluate $\boldsymbol{n}^{0}$ when $\mathrm{n}=-18$

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$\qquad$
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. $x^{2}-6+x^{6}-6 x^{3}$
(a) Polynomial in proper order: $\qquad$
(b)Identification

| TERM | COEFFICIENT | DEGREE | DEG OF POLY |
| :--- | :--- | :--- | :--- |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

32: Evaluate the following polynomial for $\mathrm{x}=4 \quad 2 x^{2}-3 x+6$

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

