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Name	:		

Math 131 Test 1 Name: _____ Show all necessary steps clearly, neatly, and systematically to receive full credit.

1. Solve: $\left| \frac{1}{4}x - \frac{3}{8} \right| - \frac{2}{3} = -\frac{1}{2}$

Solve and write the solution set in interval notation: $\left| \frac{5}{3} - \frac{1}{2} x \right| > \frac{2}{9}$

3. Solve and write the solution set in set-builder notation: $5|2x-3|+7 \ge 14$

4. Solve: |2x-5| = |-3x+4|

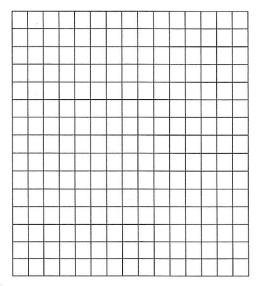
5. Solve and graph the solution set: 2-5[3m-(m+4)] > -2(m-4)

6. Solve and write the solution set in interval notation: 3x - 7 > -10 or $5x + 2 \le 22$

7. Solve:
$$\frac{3x+7}{5} - \frac{x-2}{6} = \frac{2x+1}{9}$$

8. Solve for
$$P$$
: $A = P + Prt$

9. Let 3x + 4y = -12. Find the slope and y-intercept. Then use them to graph.



Slope:

y-intercept: _____

10.	Find the equation of the line contains the point (5, -4) and (-1, -2). Write the result in standard form.
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11.	Find the equation of the line passes through a point (2, -3) and parallel to the line $-3x + 5y = 5$. Write the result in slope-intercept form.

	In an isosceles triangle, one angle is 1 measure of each angle.	o less than three times		1	s. I ma the
13.	In an IRA account valued at 49050, a	couple has twice as ma	my shares of stock	in Big Bank Corpo	ration as in Safe
	Savings and Loan. If Big Bank sells f	or \$115 per share and \$	Safe Savings sells	for \$97 per shares, h	now many shares
	Savings and Loan. If Big Bank sells f of each does the couple own?	or \$115 per share and S	Safe Savings sells	for \$97 per shares, l	now many shares
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