Student: yaser almohaws	Instructor: fahad aljabr Assignment	: Week 7 Practice	
Date: 1/1/15	Course: MATH-001: Fundamentals of Exercises	Course: MATH-001: Fundamentals of Exercises	
Time: 11:17 AM	Math 11415		
	Book: Bittinger: Introductory and		
	Intermediate Algebra, 4e		

1. Add. Simplify if possible.

$$\frac{t+v}{tv^2} + \frac{3t+v}{t^2v}$$

$$t+v + 3t+v = t^2 + 4tv + v^2$$

$$\frac{dt}{dt} \frac{dt}{dt} + \frac{dt}{dt} \frac{dt}{dt} = \frac{dt}{dt} \frac{dt}{dt} \frac{dt}{dt} \frac{dt}{dt}$$

(Simplify your answer.)

2.

$$\frac{9}{w+4} + \frac{5}{3w}$$

Add.

9	5	4(8w+5)	(C:
w+4	$+\frac{1}{3w}$	3w(w+4)	(Simplify your answer.)

3. Add. Simplify, if possible.

$$\frac{9g}{7g-21} + \frac{5g}{21g-63}$$

$$\frac{9g}{7g-21} + \frac{5g}{21g-63} = \frac{32g}{21(g-3)}$$
(Simplify your answer. Use integers or fractions for any numbers in the expression.)

4. Add.

$$\frac{9x+2}{x-8} + \frac{7x}{8-x}$$

The sum is $\frac{2(x+1)}{x-8}$.
(Simplify your answer.)

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5. Add.

$$\frac{4(3x+5)}{5x-7} + \frac{4(x-4)}{7-5x} + \frac{-13x-29}{5x-7}$$

Choose the correct sum of $\frac{4(3x+5)}{5x-7} + \frac{4(x-4)}{7-5x} + \frac{-13x-29}{5x-7}$.
OA. 49
OB. $\frac{5x^2-5x+7}{(5x-7)(7-5x)}$
OC. 70

6.

Add. Simplify, if possible.

 $\frac{4}{y^2+2y+1} + \frac{1}{y^2-1}$

Choose the correct sum.

$$\bigcirc A.$$
 $5y+3$
 $\bigotimes B.$
 $5y-3$
 $\bigcirc C.$
 $5y-3$
 $\bigcirc D.$
 $5y-3$
 $(y-1)(y+1)$
 $\bigcirc D.$
 $5y-3$
 $(y-1)(y+1)$
 $(y-1)^2(y+1)$

7. Subtract. Simplify, if possible.

 $\frac{9w+6r}{5wr^2} - \frac{4w-5r}{w^2r}$ Which choice is correct? $OA. \quad \frac{5w^2r^2}{9w^2 - 14wr + 25r^2}$ $OC. \quad \frac{9w^2 - 14wr + 25r^2}{5wr}$

$$\bigcirc B. \quad \frac{9w^2 - 14wr + 25r^2}{5w^3r^3}$$

$$\bigotimes D. \quad \frac{9w^2 - 14wr + 25r^2}{5w^2r^2}$$

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8.	Subtract. Simplify if possible.
	$\frac{7s}{(s^2-t^2)} - \frac{s}{(s-t)}$
	$\frac{7s}{(s^2-t^2)} - \frac{s}{(s-t)} = \frac{7s-s^2-st}{(s-t)(s+t)}$ (Simplify your answer.)
9.	Subtract. Simplify by removing a factor of 1 when possible.
	$\frac{5x-40}{x^2-64} - \frac{8-x}{64-x^2}$
	$\frac{5x-40}{x^2-64} - \frac{8-x}{64-x^2} = \frac{4}{x+8}$
10.	Subtract. Simplify, if possible.
	$\frac{6-z}{z-4} - \frac{2z-7}{4-z}$
	$\frac{6-z}{z-4} - \frac{2z-7}{4-z} = \frac{z-1}{z-4}$ (Simplify your answer.)
11.	Subtract.
	$\frac{f}{f^2 + 19f + 90} - \frac{9}{f^2 + 17f + 72}$
	$\frac{f}{f^2 + 19f + 90} - \frac{9}{f^2 + 17f + 72} = \frac{f - 10}{(f + 10)(f + 8)}$ (Simplify your answer.)
12.	Perform the indicated operations and simplify.
	$\frac{8}{x+w} + \frac{8}{w-x} - \frac{16x}{x^2 - w^2}$
	$\frac{8}{x+w} + \frac{8}{w-x} - \frac{16x}{x^2 - w^2} = -\frac{16}{x-w}$

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13. Solve the equation and check your answer.

 $\frac{q+4}{2} + \frac{q-3}{3} = \frac{7}{2}$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

A. The solution is 3. (Simplify your answer. Type an integer or a fraction.)

 $\bigcirc B$. There is no solution.

14.

Solve the equation and check your solution.

 $\frac{\mathbf{x}-\mathbf{3}}{\mathbf{3x}+\mathbf{8}} = \frac{1}{6}$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

 \checkmark A. The solution is $x = \frac{26}{3}$. (Simplify your answer.)

 \bigcirc B. There is no solution.

15.	Solve the following equation for x.	Select the correct choice below and, if necessary, fill in the answer box to complete
	$\frac{x-1}{x+4} = \frac{x-5}{x+2}$	your choice.
		\bigcirc^{A} . The solutions are $x = -9$.
		(Use a comma to separate answers as needed. Type an exact answer, using radicals as needed.)
		\bigcirc B. There is no solution.

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16. Solve.

$$\frac{x}{x+6} - \frac{6}{x-6} = \frac{x^2 + 36}{x^2 - 36}$$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

A. The solution is x = .
 (Simplify your answer. Type an integer or a fraction.)
 B. There is no solution.

17. Solve.

$$5 - \frac{a-3}{a+3} = \frac{a^2 - 3}{a+3}$$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

♂A. a = 7

(Type an integer or a simplified fraction.)

 $\bigcirc B$. There is no solution.

18. Jack usually mows his lawn in 7 hours. Marilyn can mow the same yard in 6 hours. How much time would it take for them to mow the lawn together?

They could mow the lawn in $3\frac{3}{13}$ hours if they worked together.

(Simplify your answer.)

19. The OfficeJet printer can copy Janet's dissertation in 22 min. The LaserJet printer can copy the same document in 12 min. If the two machines work together, how long would they take to copy the dissertation?

 $7\frac{13}{17}$ minutes (Simplify your answer.)

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20.	The speed of a passenger train is 12 mph faster than the speed of a freight train. Th passenger train travels 300 miles in the same time it takes the freight train to travel miles. Find the speed of each train.		÷ •		
	What is the speed of	What is the speed of passenger train? 60 mph.			
	What is the speed of	f freight train? 48 mph.			
21.	A long distance trucker traveled 96 miles in one direction during a snow storm. The trip in rainy weather was accomplished at double the speed and took 3 hours less Find the speed going.		-		
	The speed going wa	The speed going was 16 mph.			
22.		13 km in 20 days. At far would the student	The student would travel 1065 km.		
23.	 a fictional baseball p team of the National hits in 436 at-bats ir a) The ratio of numbra at-bats, rounded to t a player's batting av fictional baseball plahis first 112 games? b) Based on the ratio 	ayer's batting average in o of number of hits to ow many hits would he	 a) The fictional baseball player's batting average in his first 112 games is 0.273. (Type an integer or decimal rounded to the nearest thousandth as needed.) b) A fictional baseball player would get 170 hits in the 160-game season. (Round to the nearest whole number as needed.) 		
24.	conservationist catch and throws them back 44 trout are caught;	amber of trout in a lake, a hes 102 trout, tags them ck into the lake. Later, 11 of them are tagged. uld the conservationist ake?	The conservationist would expect that there are 408 trout in the lake.		