

12.5 b

Apr 4-2:49 PM

$$\begin{array}{l}
 20 \\
 \wedge \\
 1 \quad 20 \\
 2 \quad 10 \\
 \hline
 4 \quad 5
 \end{array}$$

$$\cancel{x^2 + 9x + 20}, (x+5)(x-4)$$

$$(x+4)(x+5)$$

$$(x+5)(x+4)(x-4)$$

$$(x^2 - 16)(x+5)$$

Apr 16-7:29 AM

3

$$\left(\frac{3}{3}\right) \frac{3}{c} - \frac{4}{3c}$$

$$\frac{9}{3c} - \frac{4}{3c} = \frac{9-4}{3c} = \frac{5}{3c}$$

Apr 16-7:33 AM

country 100 mi $r = x$
 HW 240 mi $r = 1.5x$

$$\frac{d}{r} = \frac{rt}{r}$$

$$t = \frac{d}{r}$$

$$C = \frac{100}{x}$$

$$H = \frac{240}{1.5x}$$

$$t = \frac{260}{x} = \frac{260}{40}$$

C + H

$$\left(\frac{1.5}{1.5}\right) \frac{100}{x} + \frac{240}{1.5x}$$

$$\frac{150}{1.5x} + \frac{240}{1.5x} = \frac{390}{1.5x}$$

$$\frac{260}{x}$$

Apr 16-7:37 AM

Class Work

p. 909 # 14-32 even,
49- 52.

Apr 4-5:04 PM

32. **Fitness** Ira walks one mile from his house to the recreation center. After playing basketball, he walks home at only 85% of his normal walking speed. Let w be Ira's normal rate of walking. $d=1$ $r=x$ $t=?$ \leftrightarrow

a. Write an expression to represent Ira's round-trip walking time. $\frac{1}{x} + \frac{1}{.85x}$

b. If Ira's normal rate of walking is 3 miles per hour, how long did it take for him to complete his walking? $\frac{2.18}{3} = .73$ $60(.73) = 43.8 \text{ min.}$

$$\left(\frac{.85}{.85}\right) \frac{1}{x} + \frac{1}{.85x} \quad \frac{.85}{.85x} + \frac{1}{.85x} = \frac{1.85}{.85x} = \frac{2.18}{x}$$

Apr 4-5:49 PM

Add or subtract. Simplify your answer.

14. $\frac{4y}{y^3} + \frac{4y}{y^3}$ $\frac{8y}{y^3}$ $\frac{8}{y^2}$

$\frac{8}{y^2}$

Apr 4-5:53 PM

Add or subtract. Simplify your answer.

16. $\frac{4x - 13}{x^2 - 5x + 6} + \frac{1}{x^2 - 5x + 6}$

$\frac{(4x - 12) + 4(x + 3)}{(x - 3)(x - 2)} = \frac{4}{x - 2}$

$V: 2$

$H: 0$

Apr 4-5:53 PM

Add or subtract. Simplify your answer.

18. $\frac{c+3}{4c^2-25} - \frac{-c+8}{4c^2-25}$ $\frac{c+3+c-8}{4c^2-25}$

~~$\frac{2c-5}{(2c+5)(2c-5)}$~~

$\frac{1}{2c+5}$ ○

Apr 4-5:54 PM

Find the LCM of the given expressions.

20. $4jk^4m, 25jm$

$100jk^4m$

25
50
75
100

Apr 4-5:54 PM

Find the LCM of the given expressions.

22. $p^2 - 3p, pqr^2$

$$p(p-3),$$

$$pqr^2(p-3)$$

Apr 4-5:54 PM

Find the LCM of the given expressions.

24. $5x^2, 7x - 14$

$$5x^2, 7(x-2)$$

$$\begin{array}{r} 7 \\ 14 \\ 21 \\ 28 \\ 35 \end{array}$$

$$35x^2(x-2)$$

Apr 4-5:54 PM

Add or subtract. Simplify your answer.

$$26. \frac{2x}{5x} + \frac{10x}{3x^2} \left(\frac{5}{5} \right)$$

$$\frac{6x^2}{15x^2} + \frac{50x}{15x^2}$$

$$15x^2$$

$$\frac{6x^2 + 50x}{15x^2} = \frac{2(3x + 25)}{15x^2}$$

$$\frac{2(3x + 25)}{15x} = \frac{6x + 50}{15x}$$

Apr 4-5:57 PM

Add or subtract. Simplify your answer.

$$28. \frac{-3t}{t-4} - \frac{2t+4}{4-t} \left(\frac{-1}{-1} \right)$$

$$-t+4$$

Apr 4-5:57 PM

Add or subtract. Simplify your answer.

30. $\frac{5x}{2x-6} + \frac{x+2}{3-x}$

$-x+3$ ↙

$\left(\frac{-2}{-2}\right)$

Apr 4-5:57 PM

49. What is the LCD of $\frac{6}{3p+3}$ and $\frac{4}{p+1}$?

Apr 4-6:04 PM

50. Simplify $\frac{4}{2x} - \frac{1}{x}$.

Apr 4-6:04 PM

51. Which of the following is equivalent to $\frac{2x}{x-2}$?

$$\frac{x}{(x-2)(x+2)} + \frac{x}{x-2} (x+2)$$

Apr 4-6:05 PM

52. **Extended Response** Andrea biked 3 miles to the post office and 5 miles to the library. The rate at which she biked to the library was three times faster than her rate to the post office r . $d = rt$ 3

- Write an expression that represents Andrea's total biking time in hours. Explain what each part of your expression means in the situation.
- Simplify the expression.
- How long did it take Andrea to bike the 8 miles if her biking rate to the post office was 3 miles per hour?

Apr 4-6:06 PM

Use p. 931 + 932
to prepare for Test

Apr 4-6:03 PM