12-4 to 12-7 Review

12.6-12.7 QUIZ

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+ · CD · −

May 16-3:44 PM

Multiply.

$\frac{3x^3}{5y^5} \cdot \frac{20xy}{-16x^2y}$ → $-\frac{x}{y^2}$

Divide.

$\frac{x^2-16}{x^2+4x+3} \div \frac{x-4}{x+1}$

$\frac{(x+4)(x-4)}{(x+3)(x+1)} \cdot \frac{x+1}{x-4} = \frac{x+4}{x+3}$

May 16-3:44 PM

Add.

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

Subtract.

$\frac{x-6}{x+5} - \frac{8x+7}{x+5} = \frac{-7x-13}{x+5} = -\frac{(7x+13)}{x+5}$

May 16-3:50 PM

12-6

Divide.

$(8x^3 - 4x^2 + 12x) \div (4x^2)$

$= 2x - 1 + \frac{3}{x}$

Divide by factoring.

$\frac{x^2+4x-5}{x-1} = \frac{(x+5)(x-1)}{x-1} = x+5$

May 16-3:52 PM

12-6

Divide using Long Division.

$6\overline{)712}$

−6, 11, −6, 52, −48, 4

$118\frac{4}{6} = 118\frac{2}{3}$

May 16-9:42 AM

12-6

Divide using Long Division.

$(6x^2 + 7x - 2) \div (x + 4)$

$x+4\overline{)6x^2+7x-2}$

$-(6x^2+24x)$

$-17x-2$

$+17x+68$

66

$6x - 17 + \frac{66}{x+4}$

May 16-3:56 PM

12-7

Solve.

$$\frac{4}{h+1}=\frac{2}{h}$$

CD: $h(h+1)$

$h \neq -1 \quad h \neq 0$

$4h = 2(h+1)$

$4h = 2h+2$

$-2h \quad -2h$

$\frac{2h}{2} = \frac{2}{2}$

$h = 1$

$4h = 2(h+1)$

May 16-3:57 PM

May 20-11:22 AM

12-7

Solve. Check your solution(s).

$$4+\frac{1}{x}=\frac{10}{2x}$$

CD: $2x$

$x \neq 0$

$8x + 2 = 10$

$-2 \quad -2$

$\frac{8x}{8} = \frac{8}{8}$

$x = 1$

May 16-4:00 PM

12-7

Solve. Check your solution(s).

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

CD: $2(x-3)$

$x \neq 3$

$8x + x^2 - 3x = 24$

$x^2 + 5x - 24 = 0$

$(x+8)(x-3)$

$x = -8 \quad x = 3$ ext

May 16-9:45 AM

Assignment: 12-6 to 12-7 Review

May 16-4:02 PM

May 20-11:22 AM