Date: Feb 21

Get test folder

Bell ringer

① $-\frac{1}{3}\sqrt{18c^5} \cdot -6\sqrt{8c^9}$

$2\sqrt{18c^5 \cdot 8c^9}$

$2\sqrt{9 \cdot 2 \cdot 4 \cdot 2c^{14}}$

$2 \cdot 3 \cdot 2 \cdot 2c^7$

$24c^7$

② $\frac{2}{3}x = \sqrt{24x - 128}$

48, 16

$\frac{4}{9}x^2 = 24x - 128$

$\frac{4}{9}x^2 - 24x + 128 = 0$

$\left(\frac{2}{3}x - 32\right)\left(\frac{2}{3}x - 4\right) = 0$

$\frac{2x}{3} - 32 = 0$ or $\frac{2x}{3} - 4 = 0$

We are going to grade the work from this week.

Tuesday: page 644
Wednesday: assorted book pages
Thursday: WS(even)

Pass all to the person to your right.

5) $\frac{n-2}{2-n} = \frac{-1(2-n)}{2-n} = -1$

9) $\frac{2w}{w+5} + \frac{3w}{5+w} = \frac{5w}{w+5}$

8) $\frac{r^2 - s^2}{r+s} = \frac{(r+s)(r-s)}{r+s}$

$= r - s$

13)

$\frac{5 \cdot v}{4v} + \frac{3 \cdot 2}{2v^2}$

$\frac{5v}{4v^2} + \frac{6}{4v^2}$

$$\frac{5v+6}{4v^2}$$

16) $t-1 \quad -\frac{1}{t+5}$

17) $\frac{7x}{2} + \frac{4y^2}{x} - \frac{2}{x}$

20)

$$\frac{3}{x-1} - \frac{6}{(x+1)(x-1)} = \frac{(x+1)(x-1)}{(x+1)(x-1)}$$

$$3(x+1) - 6 = x^2 - 1$$

$$3x + 3 - 6 = x^2 - 1$$

21)

$$(x)(x-5)$$

$$\frac{7}{x(x-5)} - \frac{3}{x-5} = \frac{4}{x}$$

$$7 - 3x = 4(x-5)$$

$$7 - 3x = 4x - 20$$

$$-7 \quad -4x \qquad -4x \quad -7$$

$$-7x = -27$$

$$x = \frac{27}{7}$$

LCD

30x

18) $\frac{6}{5} + \frac{3}{2x} = \frac{7}{15}$

$30x \quad 30x \quad 30x$

$36x + 45 = 14x$

$-45/22$

LCD $= 2(k-3)(k-4)$

$\frac{7}{k-3} - \frac{1}{2} = \frac{3}{k-4}$

$$7 \cdot 2(k-2) - (k-3)(k-4) = 3 \cdot 2(k-3)$$

$$14(k-4) - (k^2-7k+12) = 6(k-3)$$

$$14k - 56 - k^2 + 7k - 12 = 6k - 18$$

$$-k^2 + 21k - 68 - 6k + 18 = 0$$

$$-k^2 + 15k - 50 = 0$$

$$k^2 - 15k + 50 = 0$$

$$(k-5)(k-10) = 0$$

K=5 or 10

6) $3\sqrt{10} \cdot 4\sqrt{10}$

$12 \cdot 10 = 120$

$5 + \sqrt{17 - m} = m$

-5

$$\left(\sqrt{17-m}\right)^2 = (m-5)^2$$

$$17 - m = m^2 - 10m + 25$$

$$-17 + m \qquad +m \quad -17$$

$$0 = m^2 - 9m + 8$$

$$0 = (m-8)(m-1)$$

$$m = 8 \qquad m = 1$$

ext

36) $\frac{4}{5}$

32)

$$\frac{-2}{\sqrt{6}+\sqrt{11}} \cdot \frac{\sqrt{6}-\sqrt{11}}{\sqrt{6}-\sqrt{11}}$$

$$\frac{-2\sqrt{6}+2\sqrt{11}}{6-11}$$

$$\frac{-2\sqrt{6}+2\sqrt{11}}{-5}$$

$$\frac{2\sqrt{6} - 2\sqrt{11}}{5}$$

42)

$$x^2 = 200 - 35x$$

$$x^2 + 35x - 200 = 0$$

5, -40 extr

32)

$$x^2 = \frac{3}{2}x + \frac{5}{2}$$

$$\left(x^2 - \frac{3}{2}x - \frac{5}{2} = 0\right)^2$$

$$2x^2 - 3x - 5 = 0$$

$$(2x-5)(x+1)=0$$

-10	-3
$-5, 2$	

$x = \frac{5}{2}, -1$

next

$\frac{2}{-5}$

$\frac{2}{}$

2

26

$4 = 7 - \sqrt{33x-2}$

$-7 \quad -7$

$-3 = -\sqrt{33x-2}$

$3 = \sqrt{33x-2}$

$9 = 33x - 2$

$+2 \qquad +2$

$11 = 33x$

$x = \frac{1}{3}$

$\sqrt{33}\ \sqrt{33}$ 3

$6 - \sqrt{7x-9} = 3$

$-\sqrt{7x-9} = -3$

$\sqrt{7x-9} = 3$

$7x - 9 = 9$

$7x = 18$

$x = \frac{18}{7}$

$$\sqrt{x} + \frac{1}{3} = \frac{13}{3}$$

$$-\frac{1}{3} \quad -\frac{1}{3}$$

$$= \frac{12}{3}$$

$$\sqrt{x} = 4$$

$$x = 16$$