~~Feb. 28~~- bell ringer Mars

① $\frac{2\sqrt{5}}{3\sqrt{5}-4\sqrt{8}}$

$\frac{-30-16\sqrt{10}}{83}$

② $\frac{4\sqrt{19}}{3\sqrt{7}+4\sqrt{12}}$

$\frac{-12\sqrt{133}+32\sqrt{57}}{129}$

Assignment:
3rd 9 weeks test review worksheet
(~~Unit #19&#20~~)

p.558

2)

x	y
0	0
1	-6
2	-8
3	-6
4	0

Sol: 0, 4

4)

x	y
-6	0
-5	-3
-4	-4
-3	-3
-2	0

Sol: $-6, -2$

6)

x	y
-2	13
-1	10
0	9
1	10
2	13

NO REAL Solution

8

x	y
1	2
2	-3
3	-6
4	-7
5	-6
6	-3
7	2

sol $6 \angle x \angle 7$

$1 \angle x \angle 2$

10)

x	y
-5	4

12)

x	y

-4	2
$-\frac{7}{2}$	$\frac{7}{4}$
-3	2
-2	4

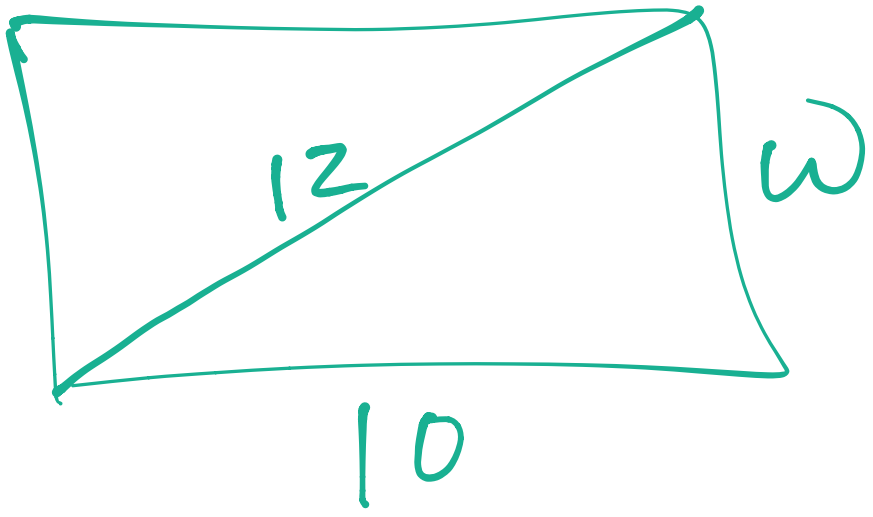
no real solution

6	4
7	1
8	0
9	1
10	4

Sol $\$$

ch. 10 Test

2)



$$w^2 + 10^2 = 12^2$$

$$w^2 + 100 = 144$$

$$\sqrt{w^2} = \sqrt{44}$$

$$w = \sqrt{4 \cdot 11} = 2\sqrt{11} \text{ cm}$$

b) $$\frac{2\sqrt{2}}{2\sqrt{5}+\sqrt{6}} \cdot \frac{2\sqrt{5}-\sqrt{6}}{2\sqrt{5}-\sqrt{6}}$$

$$4\sqrt{10} - 2\sqrt{12}$$

$$\frac{}{20-6}$$

$$\frac{4\sqrt{10}-4\sqrt{3}}{14} = \frac{2\sqrt{10}-2\sqrt{3}}{7}$$

$$5)\ \frac{\sqrt{9x^4}}{\sqrt{4n^5}} = \frac{x^2\sqrt{5}}{\sqrt{4n^4 \cdot n}}$$

$$= \frac{x^2\sqrt{5}}{2n^2\sqrt{n}} \cdot \frac{\sqrt{n}}{\sqrt{n}}$$

$$\frac{x^2\sqrt{5n}}{2n^3}$$

8)

$$5\sqrt[2]{4\cdot 3} + \frac{6\sqrt{1}\sqrt{3}}{\sqrt{3}\sqrt{3}} - 3\sqrt[4]{16\cdot 3}$$

$$10\sqrt{3} + \frac{6\sqrt{3}}{3} - 12\sqrt{3}$$

$$-2\sqrt{3} + 2\sqrt{3} = 0$$

11

$$\sqrt{6}\left(\sqrt{30}+4\sqrt{10}\right)$$

$$\sqrt{180}+4\sqrt{60}$$

$$\sqrt{36\cdot 5}+4\sqrt{4\cdot 15}$$

$$6\sqrt{5}+8\sqrt{15}$$

$$\frac{249}{7}$$

10)

$(2\sqrt{6}+7\sqrt{3})(2\sqrt{6}-7\sqrt{3})$

$24-147=\boxed{-123}$

12) 6

13) no sol

14) 12, 9 extraneous

15) $\frac{16}{3}$

$$\sqrt{\frac{9a}{3}} - 4 = 0$$

$$\left(\sqrt{3a}\right)^2 = (4)^2$$

$$3a = 16$$

$$a = \frac{16}{3}$$

16) $3\sqrt{10}$

17) $-8, 2$

18) $\sqrt{106}$

19) 23^0 20) 67^0

21) 23.9 or 23.6

1) $\sqrt{4x^2+12x+9}$

$\sqrt{(2x+3)^2}$ $= 2x+3$

$\sqrt{(2x+3)(2x+3)}$

2) $-\sqrt{6}$

$$\frac{\sqrt{2}\sqrt{3}}{\sqrt{3}\sqrt{3}} - \frac{\sqrt{3}\sqrt{2}}{\sqrt{2}\sqrt{2}}$$

$$\frac{\sqrt{6}}{3} - \frac{\sqrt{6}}{2}$$

$$\frac{2\sqrt{6}}{6} - \frac{3\sqrt{6}}{6}$$

$$\frac{-\sqrt{6}}{6}$$