

September 2, 2015

$$\#1) \Rightarrow \left(\frac{-2(x+8)}{3} - 7x = 5(x-2) + 4x \right)$$

not "y"!

$$-2x - 16 - 21x = 15(x-2) + 12x$$

$$-23x - 16 = 15x - 30 + 12x$$

$$-23x - 16 = 27x - 30$$

$$14 = 50x$$

$$\frac{14}{50} = x$$

$$\frac{7}{25} = x$$

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$$\frac{2x-16}{3}$$

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$$60 \left(\frac{3x}{4} + 7 = \frac{8}{5} - \frac{x}{3} \right)$$

$$45x + 420 = 96 - 20x$$

$$\frac{65x}{65} = \frac{-324}{65}$$

$$x = -\frac{324}{65}$$

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8.1 Quiz on Wednesday

** not Friday!*

$$16^{3/4} = (16^{1/4})^3 = (2)^3 = 8$$

$(2)^4 = 16$

Def. $A^{1/n} = \sqrt[n]{A}$

\uparrow Base \uparrow Radicand

$$16^{3/4} = \sqrt[4]{16^3} = (\sqrt[4]{16})^3$$

$$= (2)^3$$

$$= 8$$

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x	x ²	x ³	x ⁴	x ⁵
1	1	1	1	1
2	4	8	16	32
3	9	27	81	243
4	16	64	256	1024
5	25	125	625	3125
6	36	216	1296	7776
7	49	343	2401	16807
8	64	512	4096	32768
9	81	729	6561	59049
10	100	1000	10000	100000
11	121	1331	14641	161051
12	144	1728	20736	248832
13	169	2197	28561	371293
14	196	2744	38416	537824
15	225	3375	50625	759375
16	256	4096	65536	1048576
17	289	4913	83521	1419857
18	324	5832	104976	1968368
19	361	6859	130321	2476099
20	400	8000	160000	3200000

$\sqrt{169} = 13$

Print & bring to class

Sep 2-10:44 AM

Perfect Roots

Square Roots

$$\sqrt{0} = 0 ; \text{ because } 0^2 = 0$$

$$\sqrt{1} = 1 ; 1^2 = 1 \cdot 1 = 1$$

$$\sqrt{2} = 1.414\dots \left. \vphantom{\sqrt{2}} \right\} \text{Irrational Numbers}$$

$$\sqrt{3} =$$

$$\sqrt{4} = 2 ; 2^2 = 4$$

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