9 Cum Review Questions:

#25: $\frac{3.6}{4} = \frac{4.5}{x}$

$3.6x = 4.5 \cdot 4$

$\frac{3.6x}{3.6} = \frac{18}{3.6}$

$1x = 5$

$x = 5$

$4.5 \times 4 = 18.0$

$3.6 \overline{)18} \quad \times 10 \quad \times 10$

$36 \overline{)180}$ 5

-180

$\frac{36}{180}$ $\frac{5}{}$

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#26 $\frac{.04}{.32} \cdot \frac{\times 100}{\times 100} = \frac{4}{32} = \frac{1}{8}$

$\frac{\frac{3}{4}}{\frac{1}{2}} = \frac{3}{2}$

$\frac{3}{4} \div \frac{1}{2}$

$\frac{3}{4} \cdot \frac{2}{1} = \frac{3}{2}$

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Final Exam: Thurs. Dec. 18

3 - 4:50 pm

DLC 8

Unofficial Math Lab (DLC 8 from 2-3pm)

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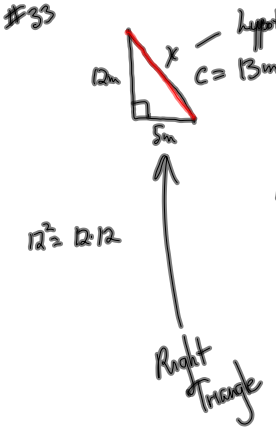
#33



Pythagorean Theorem

$a^2 + b^2 = c^2$

$12^2 + 5^2 = c^2$

$144 + 25 = c^2$

$169 = c^2$

$13 = c$

$\sqrt{c^2} = \sqrt{169}$

$c = 13$

$12^2 = 12 \cdot 12$

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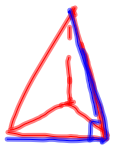

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#31. 432 miles on 27 gal of gas

$\frac{432}{27} = \frac{x}{1}$

$432 \cdot 1 = 27x$

$\frac{432}{27} = \frac{27x}{27}$

$16 = x$

16 miles per gallon

$27 \overline{)432}$ 16

27

162

162

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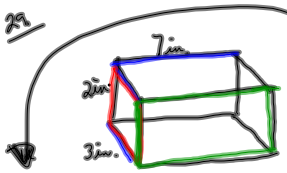
29.



Surface Area = Area of all six faces:

top / bottom: $7 \times 3 = 21\ in^2$, $21\ in^2$

side 1 / side 2: $2 \times 3 = 6\ in^2$, $6\ in^2$

front / back: $7 \times 2 = 14\ in^2$, $14\ in^2$

$82\ in^2$

Volume

$V = L \times w \times h$

$V = 7 \times 3 \times 2$

$V = 42\ in^3$

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Chpt. 8 Review:

1. Distribute
2. Combine like terms
3. Add/Multiply
4.

#23: $3(2x+1) - 4 = -7$

$3(2x) + 3(1) - 4 = -7$

$6x + 3 - 4 = -7$

$6x + 3 + (-4) = -7$

$6x + (-1) = -7$

$+(1) \quad = +1$

$6x + 0 = -6$

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

$1x = -1$

$x = -1$

$3(2(-1)+1) - 4 = -7$

$3(-2+1) - 4 = -7$

$3(-1) - 4 = -7$

$-3 - 4 = -7$

$-7 = -7$ ✓

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#6 $-5a + a + 4 - 3$ [Expression]

$(-5a + a) + (4 - 3)$

$-4a + 1$

$4 + (-3)$

$-2(5x) - (-2x)$

$-10x - (-4)$

$-10x + 4$

#24: $4(3x+1) = -2(5x-2)$

$4(3x) + 4(1) = -2(5x) + (-2)(-2)$

$12x + 4 = -10x + 4$

$+10x \quad +10x$

$22x + 4 = 4$

$+(-4) \quad +(-4)$

$(\frac{1}{22})22x = 0(\frac{1}{22})$

$x = 0$

$(5x-2)$

$(5x+(-2))$

$4(3(0)+1) = -2(5(0)-2)$

$4(1) = -2(-2)$

$4 = 4$ ✓

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#11 $-2x + 9$ $x = 4$

$-2(4) + 9$

$-8 + 9$

1

#37 $3x + 2y = 6$ $y = 3$

$3x + 2(3) = 6$

$3x + 6 = 6$

$+(-6) = +-6$

$(\frac{1}{3})3x = 0(\frac{1}{3})$

$x = 0$

$3(0) + 2(3) = 6$

$0 + 6 = 6$

$6 = 6$ ✓

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#17

$2x + 1 = 7$

$+(-1) = +(-1)$

$2x + 0 = 6$

$\frac{2x}{2} = \frac{6}{2}$

$1x = 3$

$x = 3$

$2(3) + 1 = 7$

$6 + 1 = 7$

$7 = 7$ ✓

$(\frac{1}{2})2x = 6(\frac{1}{2})$

$(\frac{3}{2})\frac{3}{8}x = 18(\frac{3}{2})$

Dec 9-3:40 PM

Dec 9-3:36 PM