Semester 2 Notes: Week 10 - Week 17 (03/15/21 - 05/07/21)

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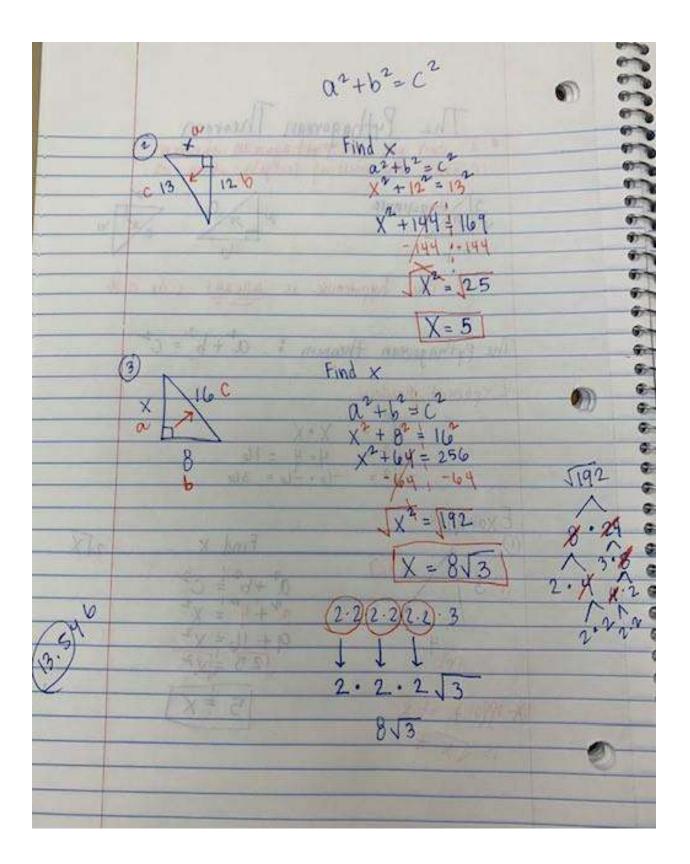
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Lesson One

| - | S-std+ D | | |
|----------|--|--|-----------------------|
| (| • I can use the py to find the missing | ean Theorem | |
| | | length of a A. | |
| | 2) Hypotenvie Leg | a to the | 7. |
| | 2 # The hypotenuse | is always side c | * |
| | The pythagorean theorem | $n = a^2 + b^2 = c^2$ | - |
| (| Exponent Review | X | |
| নি পূৰ্ব | $\chi^{2} = \chi$ $\chi^{2} = \chi$ $\chi^{2} = -\chi$ $\chi^{2} = -\chi$ $\chi^{2} = -\chi$ | 4 = 16 -6 = 36 | |
| 8 | Examples | Find X | 25× |
| 27 % | (2) 3 × 10) | $a^{2} + b^{2} = c^{2}$ $a^{2} + 4^{2} = x^{2}$ | SI. |
| 18 | @4 | 9+16+X2 23 = X2 | - Co |
| ~ | * opposite of x | 5 * X | |
| | 15 J X " | | 1 |
| | | | and the second second |



Lesson Two

10 0000000 04/27/2021 Pythagorean Theorem w/ Radicals T can use the pythagorean theorem to solve for missing lengths. Warm-up G, what Pythagonean Neoren a2+62=0 Labe this hight triangle 2 with sides a, b, and C a 6 3) Fina NP. C Q. 2 15 0 3

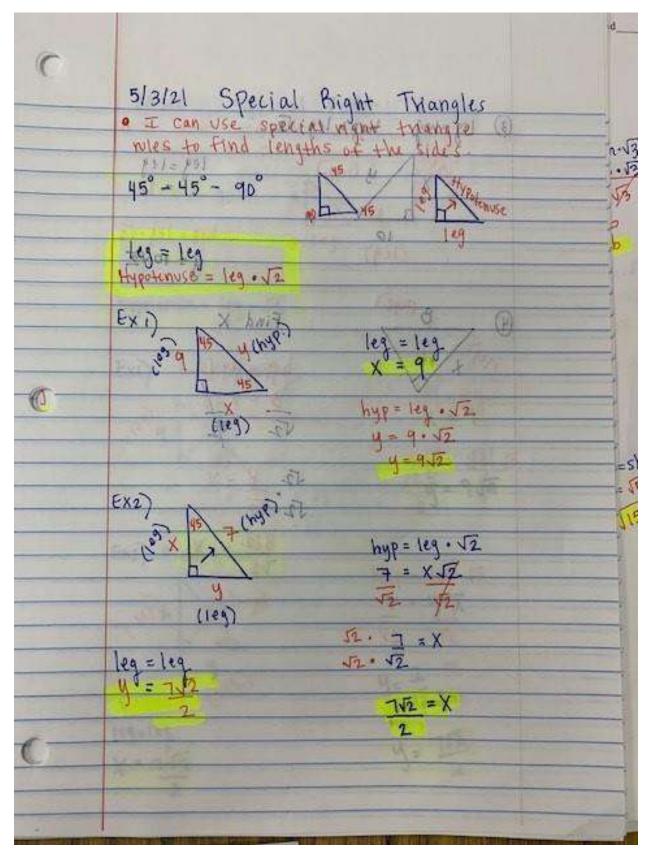
0 21 asibad ly more than and the less For 40 Trind multiples 45 5.9 (3 cross out the numbers you simplify 3.3 (3) civele any pairs write your pair as one number 4 35 on the outside Examples 3 530 J32 0 6 5. 0 } 2.3 30 2.2 2 452

Lesson Three

| | 4/28/21 Types of Triangles • I can determine if a triangle is awte, right, or obtuse. *Formulas: $a^2+b^2 > c^2 \rightarrow Acute \Delta$ $a^2+b^2 = c^2 \rightarrow Pight \Delta$ $a^2+b^2 < c^2 \rightarrow Obtuse \Delta$ * C is always your longest side * $a^2+b^2 = c^2 \rightarrow b^2$ $a^2+b^2 = c^2 \rightarrow b^2$ |
|---|---|
| 0 | 25 = 25 |

-C2 # 63 Example 1 2514 15 0 10 a+62 . a stan wan sweet + 12 - 152 . 225 2×(14)+ 144 225 - 28+144 12 6 172 2 225 2 *te 561 atb. 0 4 Ca 14 4+ 561 0 5257 196+61 257 257 = 257 1. 10

Lesson Four



3 leg=leg hyp=leg. V2 leg=leg y (hyp.) 10 7 45 10 cleg) $h_{y} = leg \cdot \sqrt{2}$ 8 (hyp) 9 Find X (1×3 13 (share 109 hyp=legJ2 8 = XJZ V2 (112 52 8 =X 52 32 Myp = 189 . 12. 812 ELX = F (ASI) X = I · 199 = 189 = 1 X= SVF 0

Lesson Five

| C | 05/04/21 Spec • I can use Find missing 1 30° - 60° - 90° * Shortleg : across | From 30". | tenuce 2 |
|---|--|---|--|
| 0 | Formulas: hyp = short leg Examples: x long x long x long | | g leg = shortleg. $\sqrt{3}$ long = sh $\cdot \sqrt{3}$ $\chi = 5 \cdot \sqrt{3}$ $\chi = 5 \sqrt{3}$ |
| | () () () () () () () () () () | $hyp=sh\cdot 2$ $X = \frac{1}{2} \cdot 2$ $X = 1$ | $long = sh \cdot \sqrt{3}$ $g' = \frac{1}{2} \cdot \sqrt{3}$ $\frac{y' = \sqrt{3}}{2}$ |
| C | 3 & bo y huse Ta Iong | hyp = $sh \cdot 2$ y = 3x $y = \frac{1253}{3}, \frac{2}{1}$ $y = \frac{2453}{3}$ | long = sh J3 $r_3 \cdot 1\lambda = X / 8$ $r_3 \cdot r_3 + r_3$ $r_3 r_3 = X$ $r_3 r_3 = X$ |