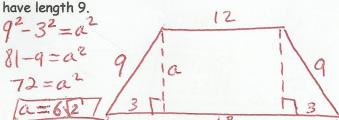
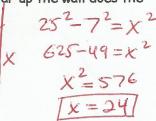
Right Triangle Practice



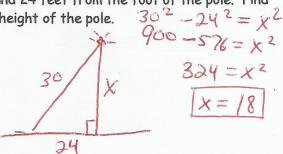
1. Find the length of the altitude of an isosceles trapezoid whose bases are 12 and 18 and whose legs



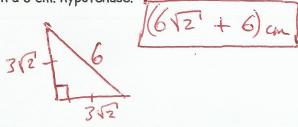
3. A ladder is 25 feet long and its base is placed 7 feet from a wall. How far up the wall does the ladder reach?



5. A wire 30 feet long was fastened to the top of a telegraph pole and made secure to a stake in the ground 24 feet from the foot of the pole. Find the height of the pole. $30^2 - 24^2 = v^2$

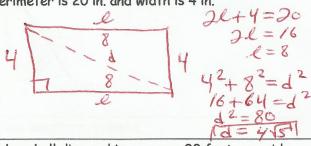


7. Find the perimeter of an isosceles right triangle with a 6 cm. hypotenuse.

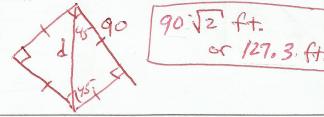


9.) Find x, y, and z. $x = 5\sqrt{3}$ $\frac{3}{12} = 2\sqrt{3}$ $3y = 24\sqrt{3}$ $y = 8\sqrt{3}$ $4 = 8\sqrt{3}$ 60° $2\sqrt{3}$ $4 = 8\sqrt{3}$ 60° $2\sqrt{3}$ $3 = 30^{\circ}$

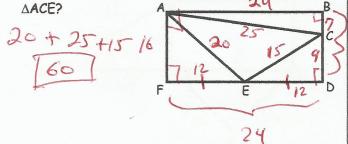
2. Find the length of a diagonal of a rectangle whose perimeter is 20 in. and width is 4 in.



4. A baseball diamond is a square 90 feet on a side. What is the distance from home plate to second base?



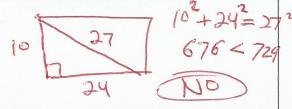
6. A piece broke off rectangle ABDF, leaving trapezoid ACDF. If BD = 16, BC = 7 FD = 24, and E is the midpoint of FD, what is the perimeter of AACE2



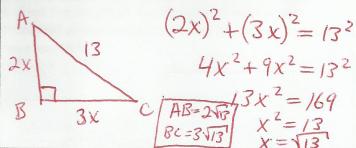
8. The perimeters of two 30-60-90 triangles are in the ratio of 1:2. If the length of the hypotenuse of the larger triangle is 20 cm., find the length of the longer leg of the smaller triangle.



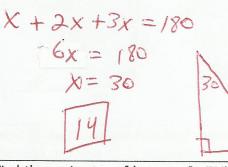
10. Is it possible to make an umbrella which is 27 inc. long lie flat on the bottom of a suitcase whose dimensions are 24 in. x 10 in. x 4 in.?



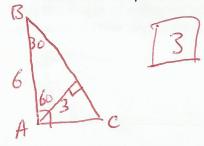
11. In $\triangle ABC$, angle B is a right angle. AB:BC = 2:3. If AC = 13, find AB and BC.



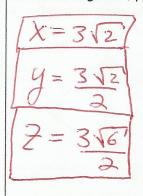
13. The measures of the angles of a triangle are in the ratio 1:2:3. The length of the shortest side of the triangle is 7. Find the length of the longest side.

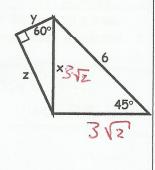


12. In $\triangle ABC$, $m \angle B = 30$ and AB = 6. Find the length of the altitude \overline{AD} upon side \overline{BC} .



14. Find lengths x, y, and z.





15. Find the perimeter of hexagon RSTUVW.

[26+812+613]

