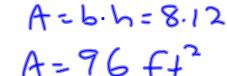
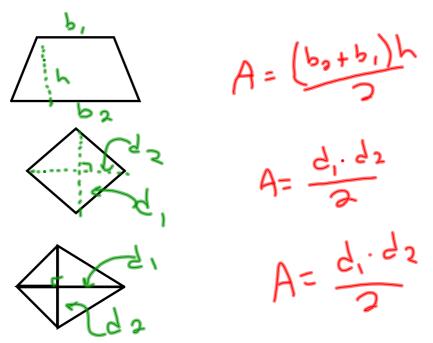
Warm Up

1. Find the area of a parallelogram with height 12 feet and base 8 feet.

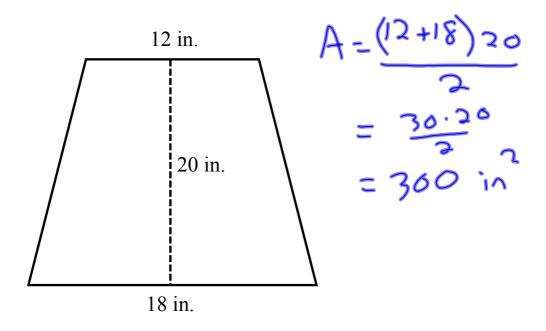


- 2. Find the area of an isosceles triangle with sides 20, 20, and 24 units.
- 3. Solve: $200 = \frac{1}{2}x(18+22)$ 9x + 11x A = 192
 - 11-2 Areas of trapezoids, rhombuses, and kites

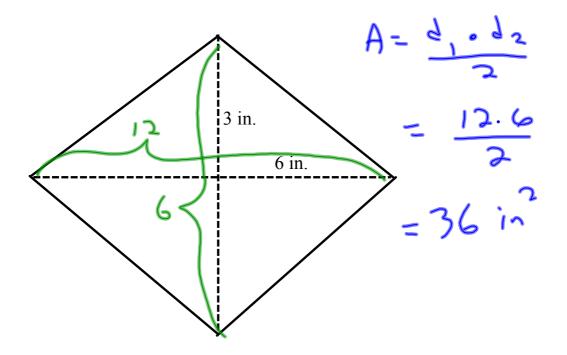


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Ex 1 Find the area of the trapezoid.

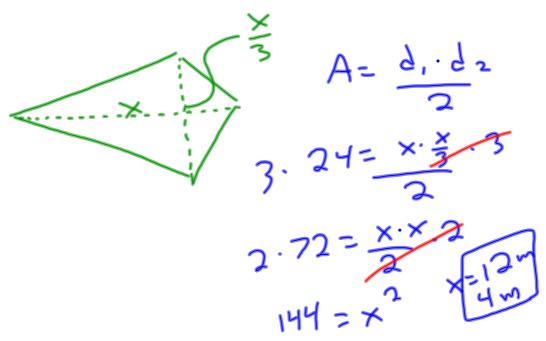


Ex 2 Find the area of the rhombus.

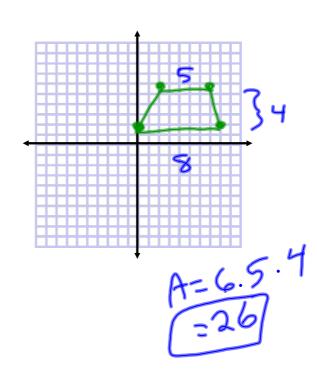


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Ex 3 One diagonal of a kite is $\frac{1}{3}$ as long as the other. The area of the kite is 24 square meters. What are the lengths of the diagonals?

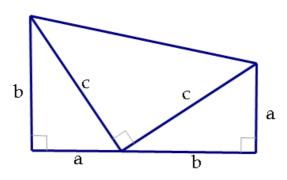


Ex. 4 Find the area of quadrilateral *ABCD*.

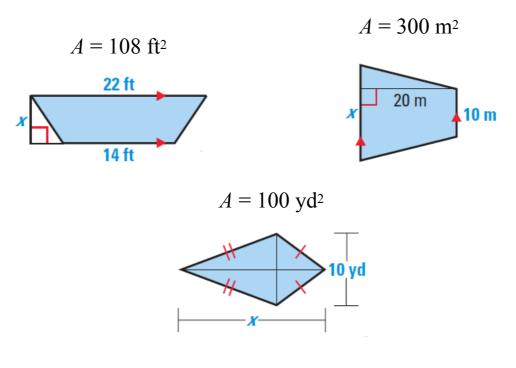


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Ex 5 James A. Garfield the twentieth president of the United States, discovered a proof of the Pythagorean Theorem in 1876. His proof involved the fact that a trapezoid can be formed from two congruent right triangles and an isosceles right triangle. use the diagram to show that $a^2 + b^2 = c^2$.



Ex. 6 Find the value of x.



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Ex. 7 Find the area of the shaded region.

