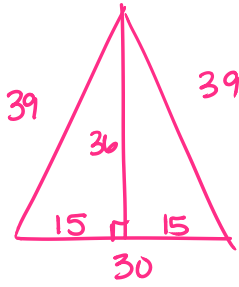


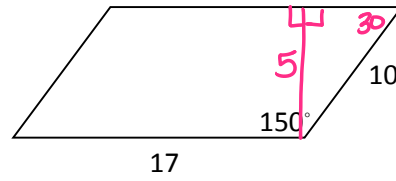
10.1 Kite and Rhombus

1. Find the area of an isosceles triangle with sides 39, 39 and 30.



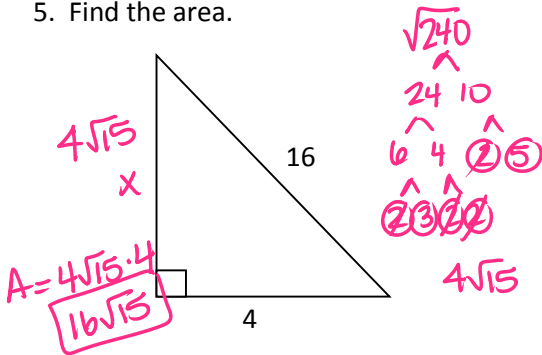
$$A = \frac{1}{2}(36)(30) = 540 u^2$$

2. Find the area of the parallelogram.

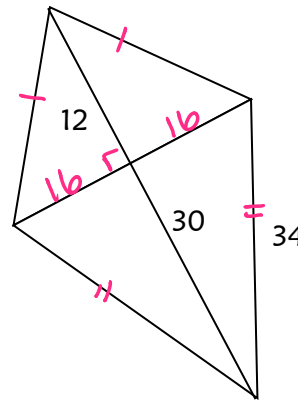


$$A = 17 \cdot 5 = 85 u^2$$

5. Find the area.

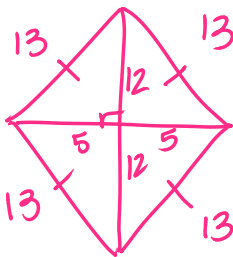


6. Find the area of the kite.



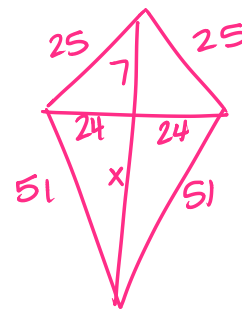
$$A = \frac{1}{2}(42)(32) = 672 u^2$$

7. Find the area of a rhombus whose perimeter is 52 and the longer diagonal is 24.



$$A = \frac{10 \cdot 24}{2} = 120 u^2$$

8. Find the area of a kite with sides 25, 25, 51, 51, and the shorter diagonal is 48.



$$x^2 + 24^2 = 51^2$$

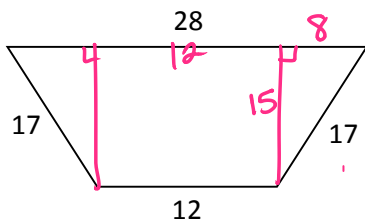
$$x = 45$$

$$d_1 = 48$$

$$d_2 = 52$$

$$\frac{48 \cdot 52}{2} = 1248 u^2$$

11. Find the area of the trapezoid.



$$A = \frac{12+28}{2} \cdot 15 = 300 u^2$$