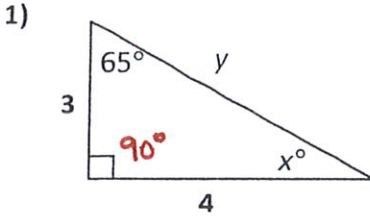


Isosceles and Equilateral Triangles Worksheet

NAME: Key

Find the value of x and y



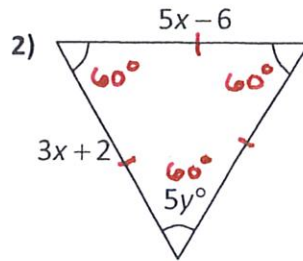
$$180 - 90 - 65 = x$$

$$x = 25$$

$$3^2 + 4^2 = y^2$$

$$y^2 = 25$$

$$y = 5$$



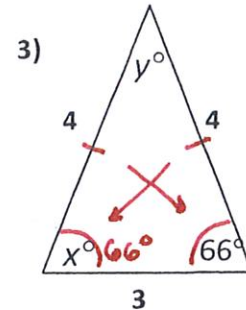
$$5y = 60$$

$$y = 12$$

$$5x - 6 = 3x + 2$$

$$2x = 8$$

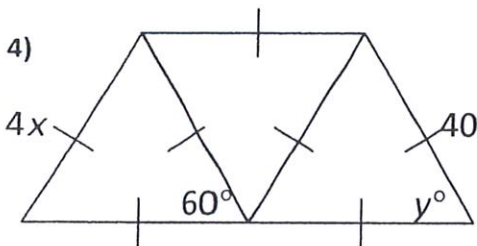
$$x = 4$$



$$x = 66$$

$$180 - 66 - 66 = y$$

$$y = 48$$

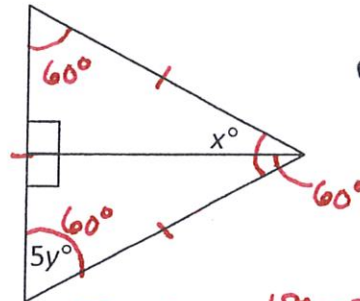


$$4x = 40$$

$$x = 10$$

$$y = 60$$

5) Equilateral Triangle



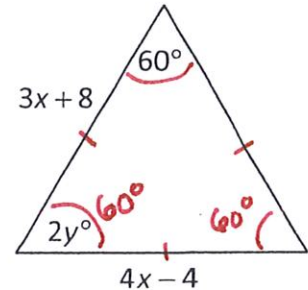
$$5y = 60$$

$$y = 12$$

$$180 - 90 - 60 = x$$

$$x = 30$$

6) Equilateral Triangle



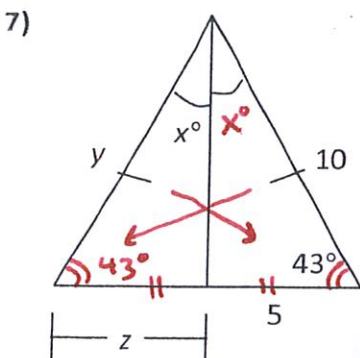
$$4x - 4 = 3x + 8$$

$$x = 12$$

$$2y = 60$$

$$y = 30$$

Find x, y and z



$\Delta's \cong$ by ASA

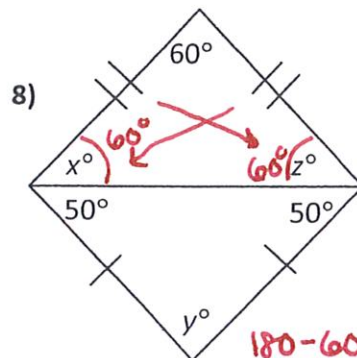
$$y = 10$$

$$z = 5$$

$$180 - 43 - 43 = 2x$$

$$2x = 94$$

$$x = 47$$



$$180 - 60 = 120$$

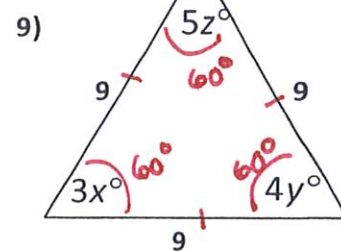
$$120 \div 2 = 60$$

$$x = 60$$

$$z = 60$$

$$180 - 50 - 50 = y$$

$$y = 80$$



$$3x = 60$$

$$x = 20$$

$$5z = 60$$

$$z = 12$$

$$4y = 60$$

$$y = 15$$