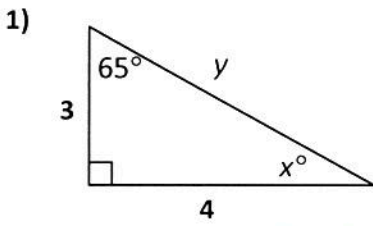


Isosceles and Equilateral Triangles Worksheet

NAME: Key

Find the value of x and y



$$90 - 65 = x$$

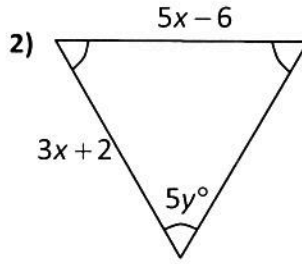
$$\boxed{25 = x}$$

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

$$9 + 16 = y^2$$

$$\sqrt{25} = y$$

$$\boxed{5 = y}$$



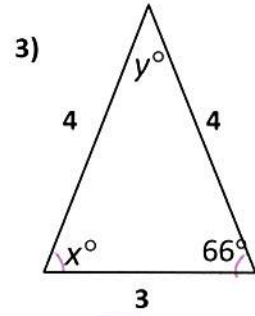
$$5y = 60$$

$$\boxed{y = 12}$$

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

$$2x = 8$$

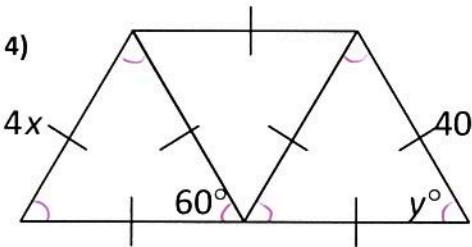
$$\boxed{x = 4}$$



$$\boxed{x = 66}$$

$$180 - 66 - 66 = y$$

$$\boxed{48 = y}$$

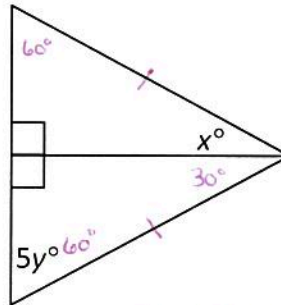


$$\boxed{y = 60}$$

$$4x = 40$$

$$\boxed{x = 10}$$

5) Equilateral Triangle



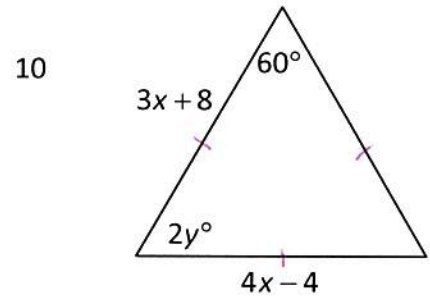
$$5y = 60$$

$$\boxed{y = 12}$$

$$180 - 90 - 60 = x$$

$$\boxed{30 = x}$$

6) Equilateral Triangle



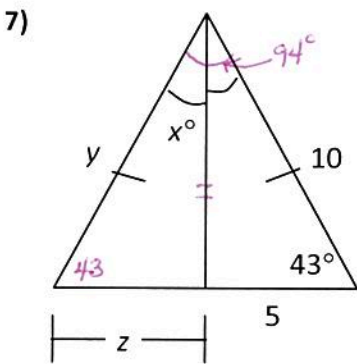
$$2y = 60$$

$$\boxed{y = 30}$$

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

$$\boxed{12 = x}$$

Find x, y and z

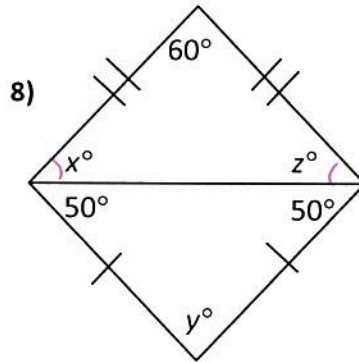


$$\boxed{y = 10}$$

$$180 - 43 - 43 = 94$$

$$\frac{94}{2} = x$$

$$\boxed{47 = x}$$

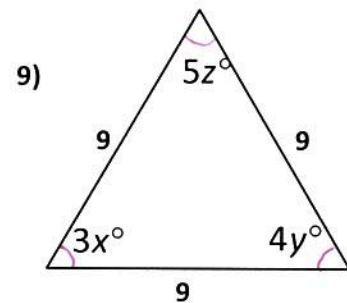


$$\frac{180 - 60}{2} = x = z$$

$$\boxed{60 = x = z}$$

$$180 - 50 - 50 = y$$

$$\boxed{80 = y}$$



$$3x = 60$$

$$\boxed{x = 20}$$

$$4y = 60$$

$$\boxed{y = 15}$$

$$5z = 60$$

$$\boxed{z = 12}$$

The Δ 's are \cong by SAS, so $\boxed{z = 5}$ by CPCTC