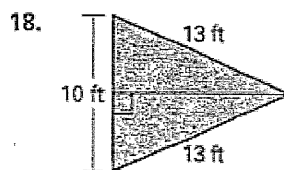
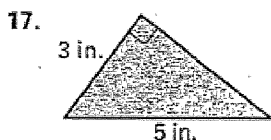
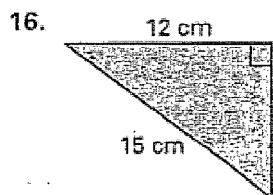
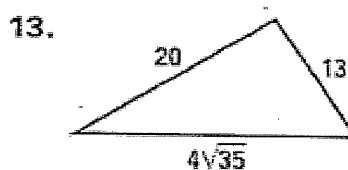
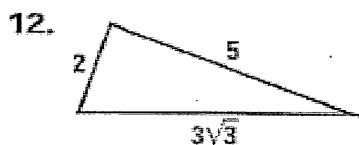
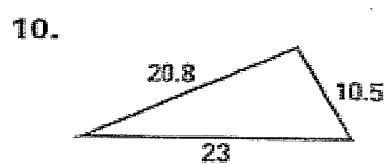
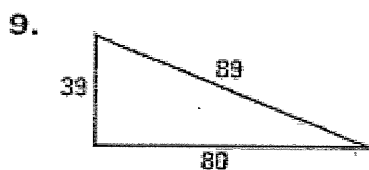
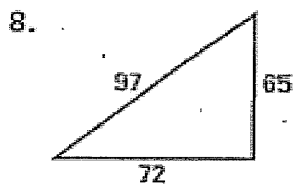


Find the area of the below triangles:

Recall that Area of triangle = _____

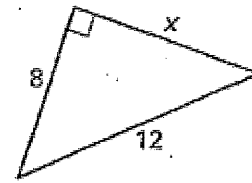
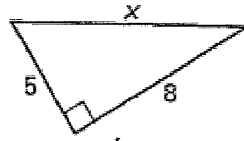
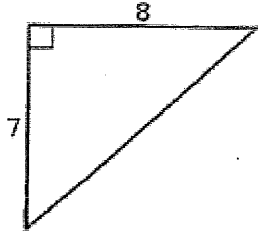


Verifying Right Triangles: Tell whether the triangle is a right triangle



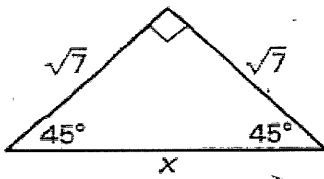
Find the missing side of the right triangles below

1.

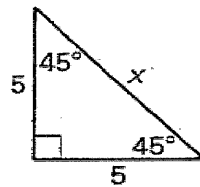


Find the missing lengths of the below triangles:

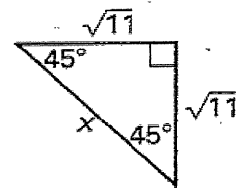
3.



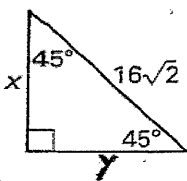
4.



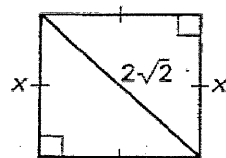
5.



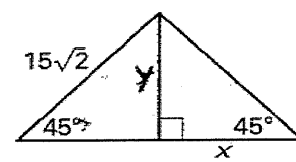
6.

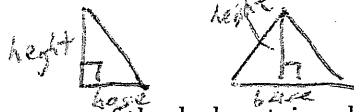


7.



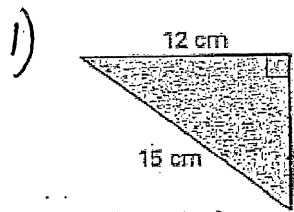
8.





Find the area of the below triangles:

Recall that Area of triangle = $A = \frac{1}{2}bh$



$$x^2 + 12^2 = 15^2$$

$$x^2 + 144 = 225$$

$$x^2 = 81$$

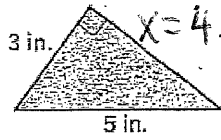
$$x = 9$$

2)

$$A = \frac{1}{2}bh$$

$$A = \frac{1}{2}(9)(12)$$

$$A = 54 \text{ cm}^2$$

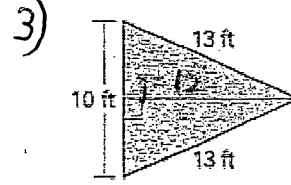


$$3^2 + x^2 = 5^2$$

$$x = 4$$

$$A = \frac{1}{2}(3)(4)$$

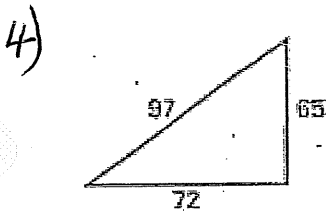
$$A = 6 \text{ in}^2$$



$$A = \frac{1}{2}(10)(12)$$

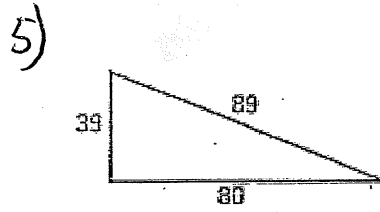
$$A = 60 \text{ ft}^2$$

Verifying Right Triangles: Tell whether the triangle is a right triangle



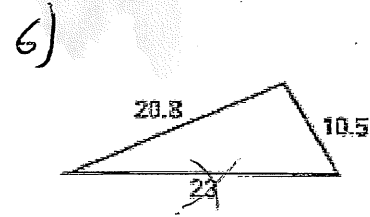
$$65^2 + 72^2 = 97^2 \checkmark$$

a) $\boxed{\text{yes}}$



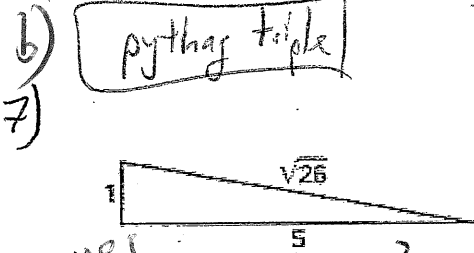
a) $\boxed{\text{yes}}$

b) $\boxed{\text{pythag triple}}$



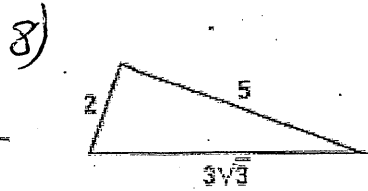
a) No $\boxed{\neq 23.3^2}$

b) no



a) yes $1^2 + 5^2 = \sqrt{26}^2$

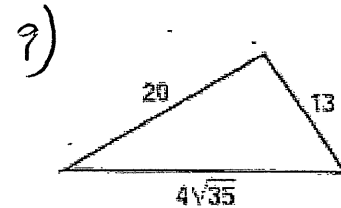
b) $\boxed{\text{Not a pythag triple}}$



$$2^2 + 5^2 \neq (3\sqrt{3})^2$$

a) NO

b) no

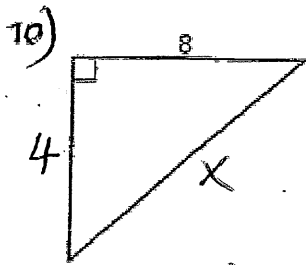


$$20^2 + 13^2 \neq (4\sqrt{35})^2$$

a) NO

b) no

Find the missing side of the right triangles below

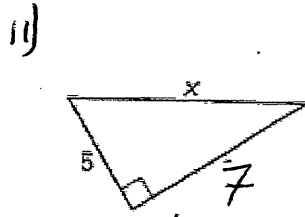


$$4^2 + 8^2 = x^2$$

$$x^2 = 80$$

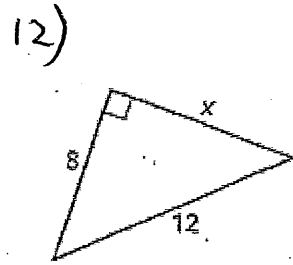
$$x = \sqrt{80}$$

$$x = \sqrt{80} \uparrow 4\sqrt{5}$$



$$5^2 + 7^2 = x^2$$

$$x = \sqrt{74}$$

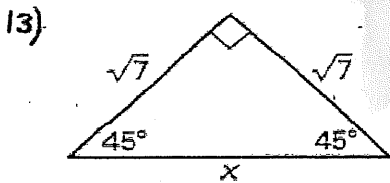


$$8^2 + x^2 = 144$$

$$x^2 = 80$$

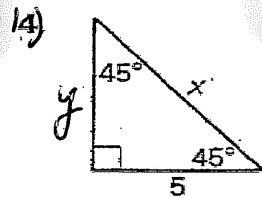
$$x = 4\sqrt{5}$$

Find the missing lengths of the below triangles:



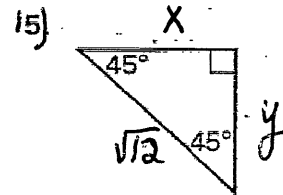
$$x = \sqrt{7} \cdot \sqrt{2}$$

$$x = \sqrt{14}$$



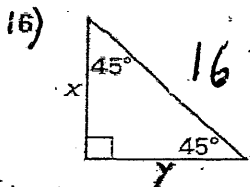
$$y = 5$$

$$x = 5\sqrt{2}$$



$$x = \frac{\sqrt{2}}{\sqrt{2}} = \sqrt{6} \quad x = \sqrt{6}$$

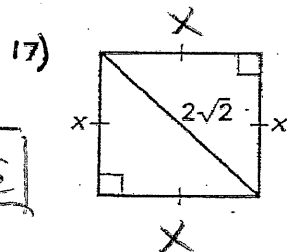
$$y = \sqrt{6}$$



$$x = 8\sqrt{2}$$

$$x = \frac{16}{\sqrt{2}} = 8\sqrt{2}$$

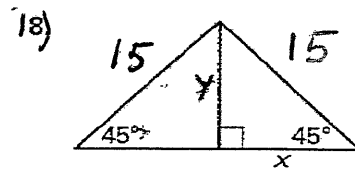
$$y = 8\sqrt{2}$$



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

$$x = 2$$

$$y = 2$$



$$y = \frac{15}{\sqrt{2}} = \frac{15\sqrt{2}}{2}$$

$$y = \frac{15\sqrt{2}}{2}$$

$$x = \frac{15\sqrt{2}}{2}$$