

Angeles City Science High School

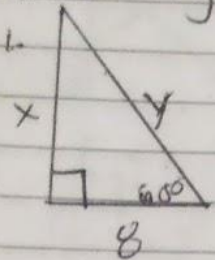
Mathematics 9

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Section: 9 - Adenine

Q4W2

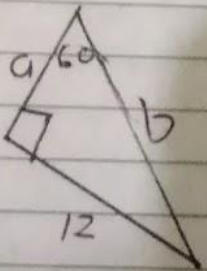
Activity A.



hyp = shorter (2)
 $y = 8(2)$
 $y = 16 \text{ u}$

longer = shorter ($\sqrt{3}$)
 $x = 8(\sqrt{3})$
 $x = 8\sqrt{3} \text{ u}$

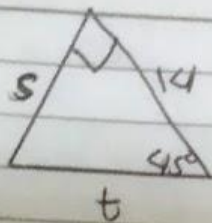
2.



longer = shorter ($\sqrt{3}$)
 $12 = a(\sqrt{3})$
 $\frac{12}{\sqrt{3}} = \frac{a\sqrt{3}}{\sqrt{3}}$
 $a = \frac{12}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}}$
 $a = \frac{12\sqrt{3}}{3} \text{ u}$ or $a = 4\sqrt{3} \text{ u}$

hyp = shorter (2)
 $b = \frac{12\sqrt{3}}{3}(2)$
 $b = \frac{24\sqrt{3}}{3} \text{ u}$ or $b = 8\sqrt{3} \text{ u}$

3.



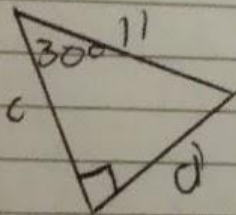
$$\text{hyp} = \text{leg}(\sqrt{2})$$

$$t = 14(\sqrt{2})$$

$$t = 14\sqrt{2} \text{ v}$$

$$s = 14 \text{ v} \rightarrow \text{since it is an isosceles triangle.}$$

4.



$$\text{hyp} = \text{shorter}(2)$$

$$11 = d(2)$$

$$11 = 2d$$

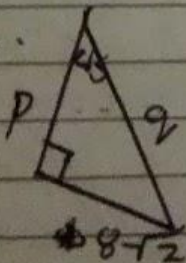
$$d = \frac{11}{2} \text{ v}$$

$$\text{longer} = \text{shorter}(\sqrt{3})$$

$$c = \frac{11}{2}(\sqrt{3})$$

$$c = \frac{11\sqrt{3}}{2} \text{ v}$$

5.



$$\text{hyp} = \text{leg}(\sqrt{2})$$

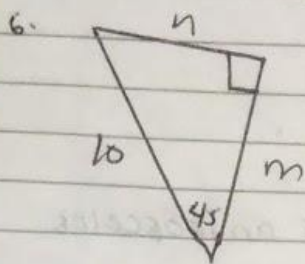
$$q = 8\sqrt{2}(\sqrt{2})$$

$$q = 8\sqrt{4}$$

$$q = 8(2)$$

$$q = 16 \text{ v}$$

$$p = 8\sqrt{2} \text{ v} \rightarrow \text{isosceles triangle}$$



$$\text{hyp} = \text{leg}(\sqrt{2})$$

$$10 = m(\sqrt{2})$$

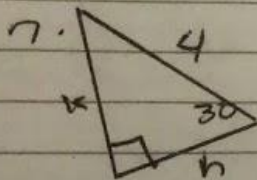
$$\frac{10}{\sqrt{2}} = \frac{m\sqrt{2}}{\sqrt{2}}$$

$$m = \frac{10}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}}$$

$$m = \frac{10\sqrt{2}}{2} \quad \text{or}$$

$$m = 5\sqrt{2} \quad \text{or}$$

$$m = 5\sqrt{2} \quad \text{or}$$



$$\text{hyp} = \text{shorter}(2)$$

$$4 = k(2)$$

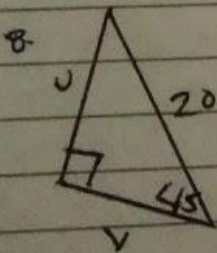
$$\frac{4}{2} = \frac{2k}{2}$$

$$k = 2 \quad \text{or}$$

$$\text{longer} = \text{shorter}(\sqrt{3})$$

$$h = 2(\sqrt{3})$$

$$h = 2\sqrt{3} \quad \text{or}$$



$$\text{hyp} = \text{leg}(\sqrt{2})$$

$$20 = v(\sqrt{2})$$

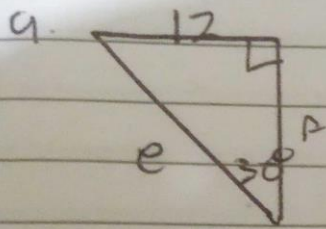
$$\frac{20}{\sqrt{2}} = \frac{v\sqrt{2}}{\sqrt{2}}$$

$$v = \frac{20}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}}$$

$$v = \frac{20\sqrt{2}}{2}$$

$$v = 10\sqrt{2} \quad \text{or}$$

$$v = 10\sqrt{2} \quad \text{or}$$



hyp = shorter leg (2)

$$e = 12(2)$$

$$\boxed{e = 24 \text{ V}}$$

longer = shorter ($\sqrt{3}$)

$$F = 12(\sqrt{3})$$

$$\boxed{F = 12\sqrt{3} \text{ V}}$$