

$$30 + x = a + b$$

$$30 + x = 80$$

$$x = 50$$

21

$$\frac{5555555}{7} \times \frac{60}{6}$$

$$560 = 180$$

$$210 - 2b + 180 - 2a + 40 + 90 = 360$$

$$210 - 2b + 40 - 2a = 90$$

$$250 - 90 = 2b + 2a$$

$$160 = 2b + 2a$$

36

$$\begin{array}{r} 630 \\ 315 \\ 105 \\ 21 \\ 3 \\ 1 \end{array} \begin{array}{l} 2 \\ 3 \\ 5 \\ 7 \\ 3 \\ 1 \end{array}$$

$$36(18) - 18 - 72\tau - \tau + 2\tau^2 = 0$$

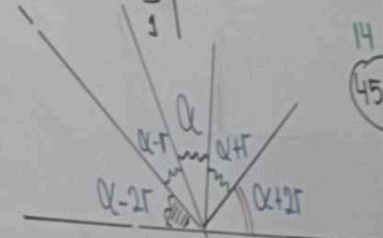
$$35(18) - 73\tau + 2\tau^2 = 0$$

$$45 - 2\tau = 28\tau$$

$$14 - \tau = 45\tau$$

$$45 = 2\tau$$

$$14 = \tau$$



$$5\alpha = 180$$

$$\alpha = 36$$

$$36 - 45 = -$$

$$36 - (28) = 8$$

$$(\alpha - 2\tau) = \alpha + 2\tau$$

$$\alpha^2 - 4\alpha\tau + 4\tau^2 = \alpha + 2\tau$$

$$36(36) - 4(36)\tau + 4\tau^2 = 36 + 2\tau$$

$$18(36) - 72\tau + 2\tau^2 = 18 + \tau$$

$$2^{\frac{\sqrt{2}}{10}} = (10\sqrt{2})^{\frac{1}{10}}$$

$$(10\sqrt{2})^{\frac{1}{10}} = x^{\frac{1}{10}}$$

$$(10\sqrt{2})^2 = x^2$$

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

$$\sqrt[3]{x} = 3 = \sqrt[3]{27}$$

$$\sqrt[3]{27} \Rightarrow x = 27$$

$$(14) (\sqrt{x})^{\frac{1}{\sqrt{x}}} = \sqrt{2}$$

$$2^{\frac{1}{2}} = \sqrt{4} = 2$$

$$(\sqrt{4})^{\frac{1}{\sqrt{4}}}$$

$$x=4 \rightarrow (4)^2 - 2(4) + 1 = 9$$

$$(15) x^{x^x} = 2^{-\sqrt{2}}$$

$$x^{x^x} = \left(\frac{1}{2}\right)^{\sqrt{2}}$$

$$= \left(\left(\frac{1}{2}\right)^2\right)^{\frac{1}{2}\sqrt{2}} = 2^{-\frac{1}{2}}$$

$$\frac{2^{\frac{1}{2}}}{2^{\frac{1}{2}}} = 2^{-\frac{1}{2}}$$

$$\left(\frac{1}{4}\right)^{2^{-\frac{1}{2}}}$$

$$\left(\frac{1}{4}\right)^{\left(\frac{1}{2}\right)^{-\frac{1}{2}}}$$

$$\left(\frac{1}{2}\right)^{2 \cdot \frac{1}{4}}$$

$$\left(\frac{1}{4}\right)^{\left(\frac{1}{4}\right)} x = \frac{1}{4}$$

$$\left(\frac{1}{2}\right)^{\frac{1}{2}}$$

$$\left(\frac{1}{2}^{2 \cdot \frac{1}{2}}\right)^{\frac{1}{2}}$$

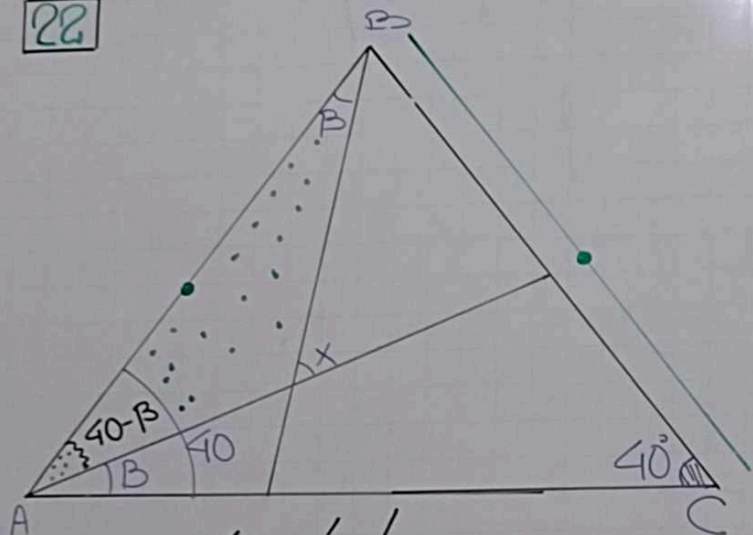
$$\left[\left(\frac{1}{2}\right)^2\right]^{\frac{1}{2}} = \frac{1}{2}$$

$$\Rightarrow 2(n+3) = 2(3) = 6$$

$$9+3$$

$$\therefore H_n$$

22

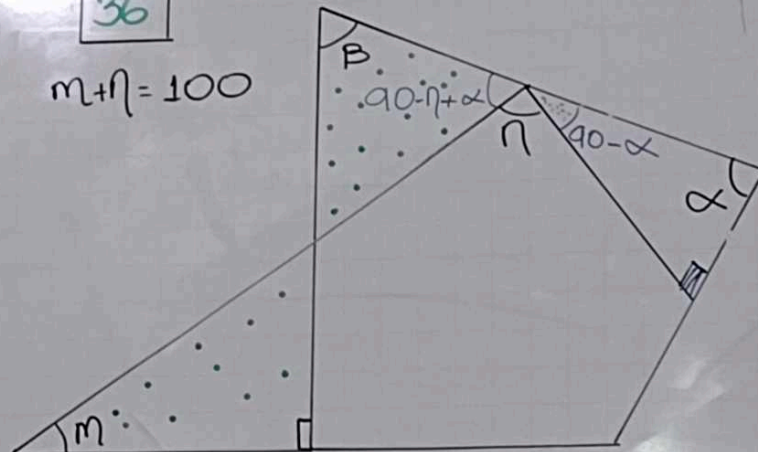


$$40 - \cancel{B} + \cancel{B} = x$$

$$\underline{40 = x}$$

36

$$m + n = 100$$



$$m + 90 = \cancel{B} + 90 - n + \alpha$$

$$m + n = \alpha + \beta$$

$$\underline{100 = \alpha + \beta}$$

