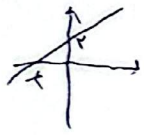
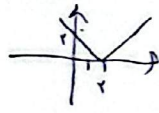
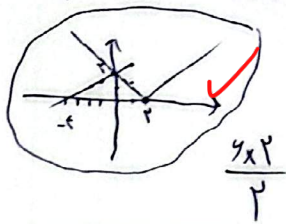


$$\frac{-x+17}{3} = |x+2| + |x-1|$$

$$\begin{cases} x > 1 : 2x+1 = \frac{-x+17}{3} \rightarrow 4x+2 = -x+17 \rightarrow 5x=15 \rightarrow x=3 \quad (3,4) \\ 1 > x > -2 : x+2 - x+1 = 3 \\ x < -2 : -x-2-x+1 = \frac{-x+17}{3} \rightarrow -2x-1 = -x+17 \rightarrow -x=18 \rightarrow x=-18 \quad (-18,17) \end{cases}$$

$$\sqrt{3^2+4^2} = 5$$

$$\frac{1}{3}x+2 \quad |x-2|$$



ارتفاع : 4
عرض : 3

$$\frac{3 \times 4}{2} = 6$$

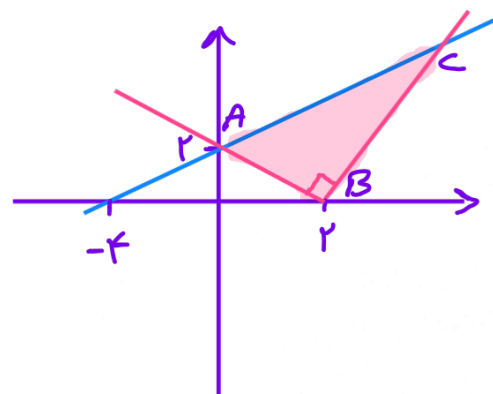
مساحة : 9

$$\frac{1}{x} = \frac{1}{x+9} = \frac{1}{10} \rightarrow \frac{x+9}{x^2+9x} = \frac{1}{10} \rightarrow 10x+180 = x^2+9x$$

$$x^2-11x+180=0$$

$$(x-34)(x+4)=0 \rightarrow x=34 \checkmark \quad x=-4 \text{ غير صحيح}$$

$$\frac{1}{34} + \frac{1}{44} = \frac{44+34}{34 \times 44} = \frac{78}{1496} = \frac{39}{748}$$



$$x_C > 2 \rightarrow \frac{1}{3}x_C + 2 = x_C - 2$$

$$\rightarrow C(8, 4)$$

$$AB = 2\sqrt{2} \quad BC = 4\sqrt{2} \rightarrow S = \frac{2\sqrt{2} \times 4\sqrt{2}}{2} = 12$$

$$\text{قسط} = \sqrt{x^2+y^2} \rightarrow \frac{\sqrt{x^2+y^2}}{x} = \frac{\sqrt{5+1}}{2} \rightarrow \frac{x^2+y^2}{x^2} = \frac{4+\sqrt{5}}{2}$$

$$\text{منخرج رواسه} \rightarrow \frac{y^2}{x^2} = \frac{1+\sqrt{5}}{2} \quad \text{خواتمه معل} : \frac{x^2}{y^2} = \frac{2}{1+\sqrt{5}} = \frac{\sqrt{5}-1}{2}$$

$$\sqrt{n+1} \left(\frac{1}{\sqrt{n-1}+3} - \frac{1}{3-\sqrt{n-1}} \right) = \sqrt{n+1} \left(\frac{-2\sqrt{n-1}}{9-(n-1)} \right) = \frac{n-1}{\sqrt{n-1}} \quad \text{✓}$$

$$\sqrt{n+1} \left(\frac{-2\sqrt{n-1}}{10-n} \right) = \sqrt{n-1} \Rightarrow -2\sqrt{n+1} = 10-n \xrightarrow[n \geq 10]{\text{تقارب}}$$

$$n^2 - 24n + 94 = 0 \rightarrow n = 12 \mp 4\sqrt{3} \rightarrow \boxed{12 \pm 4\sqrt{3} \quad \text{ق.ق}}$$