



$$3 - \frac{x-3}{3} - \frac{5}{x-2} = \frac{2}{3} \quad | \cdot 3$$

$$x-3 - \frac{15}{x-2} = 2$$

$$x-3 = \frac{2 + \frac{15}{x-2}}{1 \cdot x-2}$$

$$x-3 = \frac{2x-4+15}{x-2}$$

$$(x-3)(x-2) = 2x+11$$

$$x^2 - 5x + 6 = 2x + 11$$

$$x^2 - 7x - 5 = 0$$

$$A > B$$

$$24x^2 + 74x + 55 = 0$$

$$b^2 - 4ac = 196$$

$$x = \frac{-74 \pm 14}{48}$$

$$x = \frac{-74 + 14}{48}$$

$$x = \frac{-74 - 14}{48}$$

$$x = \frac{-60 - 5}{48} = \frac{-65}{48}$$

$$x = \frac{-88 - 11}{48} = \frac{-99}{48}$$

$$x = \frac{-5}{4} \downarrow B$$

$$x = \frac{11}{6} \downarrow A$$

$$\frac{11}{6} - \frac{5}{4} = \frac{22 - (-15)}{12} = \frac{37}{12} = 3 \frac{1}{12}$$

$$\frac{x-3}{3} - \frac{5}{x-2} = \frac{2}{3}$$

$$x^2 - 5x + 6 - 15 = \frac{2}{3}$$

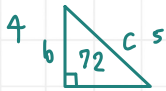
$$x^2 - 5x + 6 = \frac{2}{3} + \frac{15 \cdot 3}{1 \cdot 3}$$

$$x^2 - 5x + 6 = \frac{47}{3}$$

$$3x^2 - 15x + 18 = 47$$

$$3x^2 - 15x - 29 = 0$$

$$b^2 - 4ac = 225 - 4(29)(3) = 225 - 348$$



$$a \quad b \quad c$$

$$c : a$$

$$5 : 3$$

$$20$$

$$72 = \frac{1}{2} \times 2 \times 12$$

3:

$$72 = \frac{1}{2} \times 2 \times 12$$

$$72 = 6x$$

$$12 = x$$

$$72 = 6x^2$$

$$12 = x^2$$

$$\sqrt{12} = x$$

$$3\sqrt{12} = 4\sqrt{12}$$

$$6\sqrt{3} = 5\sqrt{12}$$

$$8\sqrt{3} = 10\sqrt{3}$$

5

$$\frac{x^2(x^2)}{x+1(x^2)} + \frac{2x+2}{x^2(x+1)} = 3$$

$$y = \frac{1}{x} + \frac{1}{x^2}$$

$$\frac{x^4 + 2x^2 + 2x + 2}{x^3 + x^2} = 3$$

$$x^3 + x^2$$

$$\frac{x^4 + 2x^2 + 4x + 2}{x^3 + x^2} = 3$$

$$x^4 + 2x^2 + 4x + 2 = 3x^3 + 3x^2$$

$$x^4 + 2x^2 = 3x^3 + 3x^2 - 4x - 2$$

$$x^2(x^2 + 2) = 3x^2(x+1) - 2(x+1)$$

$$x^2(x^2 + 2) = 3x^2 - 2(x+1)$$

$$\frac{x^2(x^2 + 2)}{x+1} = 3x^2 - 2$$



$$x^2 + bx + c = (x + \sqrt{3})(x + \sqrt{2}) \quad b+c=?$$

$$x^2 + bx + c = x^2 + x\sqrt{3} + x\sqrt{2} + \sqrt{6}$$

$$x^2 + bx + c =$$

$$bx = x\sqrt{3} + x\sqrt{2} \quad \sqrt{6}$$

$$\sqrt{3} + \sqrt{2} + \sqrt{6}$$

$$(ax^2 - kx = 1)^2$$

$$a^2x^4 - k^2x^2 = 1$$

$$(ax^2)^2 - (kx)^2 = 1$$

$$(ax^2 - kx)(ax^2 + kx) = 1$$

$$x(ax - k)x(ax + k) = 1$$

$$x^2(ax - k)(ax + k) = 1$$

$$x^2(ax)^2 - (k)^2 = 1$$

$$x(ax - k) = 1$$

↓  
0

$$ax - k = 1$$

$$ax = k + 1$$

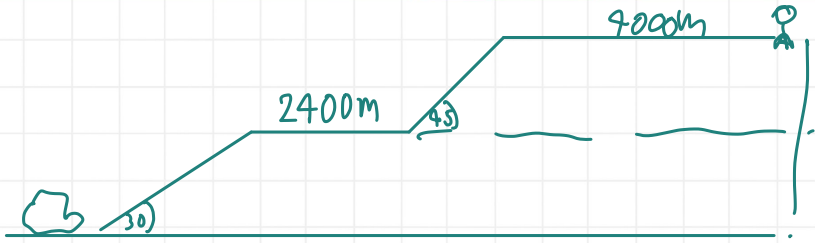
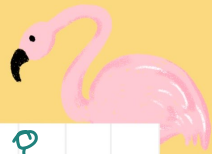
$$x = \frac{k+1}{a}$$

$$\sqrt{\frac{k+1}{a}} \times \sqrt{\frac{k+1}{a}}$$

$$\frac{-(k+1)}{a} \quad -1$$

NOTE

Dinosaur



$$\frac{\sqrt{2} \cdot \sqrt{3}}{2} + \frac{\sqrt{3} \cdot 2}{\sqrt{2}}$$

$$\sqrt{3} \cdot \frac{2}{\sqrt{2}} \quad \sqrt{3} \cdot \frac{2}{\sqrt{2}}$$

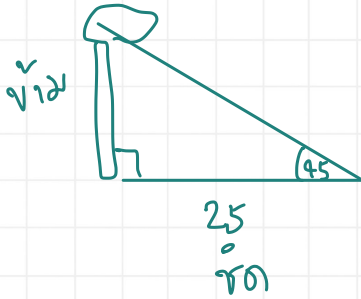
$$\frac{\sqrt{6}}{4} + \frac{2\sqrt{3}}{\sqrt{2}}$$

$$\frac{2\sqrt{3}}{\sqrt{2}}$$

$$\frac{\sqrt{6}}{4} + \frac{2\sqrt{3}}{\sqrt{2}} \times \frac{\sqrt{2}}{2\sqrt{3}}$$

NOTE

Dinosaur



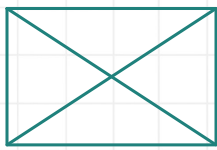
$$\tan 45^\circ = \frac{x}{25}$$

$$1 = \frac{x}{25}$$

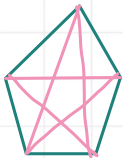
$$x = 25$$

$$\sin A + \cos A = \sqrt{2}$$

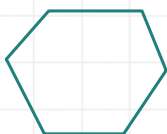
$$\frac{3\sin^2 A - 2\cos^2 A}{\tan^2 A}$$



4 เส้นภายใน  
2 เส้น  
 $n - 2$



5 เส้นภายใน  
5 เส้น



$$\frac{5}{2} \times (5 - 3)$$

NOTE

Dinosaur



Lion



$$3 \leq x \leq 10$$

$$50 - x \cdot x > A$$

$$47 \cdot 3 > 141$$

$$> 186$$

$$> 400$$

$$141 - 400$$

$$1 + x \frac{x}{1+x}$$

$$1 + x + x^2 + x \\ x^2 + 2x + 1$$

$$x + \frac{x}{x^2 + 2x + 1}$$

$$x^3 + 2x^2 + x + x$$

$$x^3 + 2x^2 + 2x + 1$$

$$\frac{x}{x^3 + 2x^2 + 2x + 1}$$

NOTE

Dinosaur



$$\frac{2x^3 + 3x^2 - 27x}{x-3} \times \frac{x^2 - 25}{2x^2 - x - 45}$$

$$\frac{x(2x^2 + 3x - 27)}{x-3}$$

$$\frac{x(2x+9)(x-3)}{(x-3)} \times \frac{(x-5)(x+5)}{(2x+9)(x-5)}$$

$$x^2 + 5x$$

$$2a^{2n} - a^n b^n - 6b^{2n}$$

$$(2a^n + 3b^n)(a^n - 2b^n)$$

3

4

$$\frac{1}{3} \times \pi r^2 h$$

$$9152 = \frac{1}{3} \times \pi (24-8)^2 \times h$$

$$9152 = \frac{1}{3} \times \frac{22}{7} \times 256 \times h$$

$$9152 = 256 \times 22h$$

$$34.125 \text{ m}$$

NOTE

Dinosaur



$$\begin{aligned} O \text{ ngoài} &= \pi \cdot 2r^2 \\ O \text{ bên} &= \pi r^2 \\ 2\pi r^2 - \pi r^2 \\ \hline \pi r^2 \end{aligned}$$

$$\frac{120r}{100} \quad \frac{12r}{10}$$

$$\pi \cdot \left(\frac{24r}{10}\right)^2 - \pi \cdot \left(\frac{12r}{10}\right)^2 \quad 2 \left(\frac{12r}{10}\right)$$

$$\pi \cdot \left(\frac{24r - 12r}{10}\right) \left(\frac{24r + 12r}{10}\right) \overset{24r}{10}$$

$$\pi \left(\frac{12r}{10}\right) \left(\frac{36r}{10}\right)$$

$$\pi \cdot \frac{36r^2}{10}$$

$$3.6 \pi r^2$$

$$\pi r^2 = 100$$

$$3.6 \pi r^2 = \frac{100 \times 3.6 \pi r^2}{\pi r^2}$$



NOTE

Dinosaur



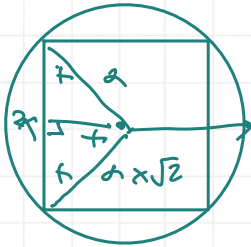
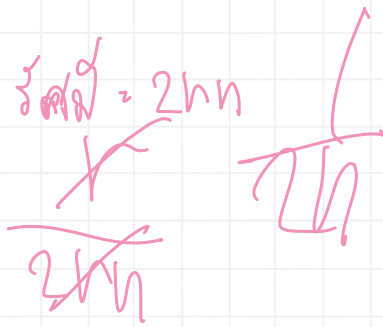
Lion



Flamingo



$$R \text{ of } \text{circle} = 2hn$$



$$4\pi r^2 = 4 \cdot \frac{22}{7} (x\sqrt{2})^2$$

$$= 4 \cdot \frac{22}{7} \cdot x^2 \cdot 2$$

$$= 25.14x^2$$

$$6 \cdot (2x)^2 = 24x^2$$

$$25.14 : 24$$

$$1.05 : 1$$



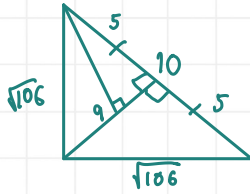
Pork



Laffe

NOTE

Dinosaur

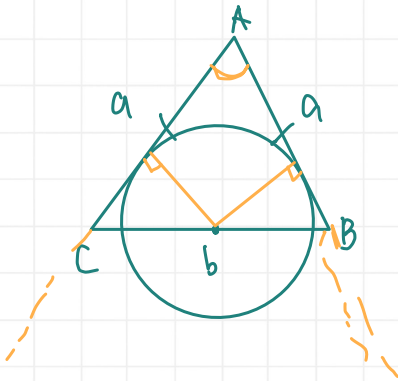


$$2\sqrt{106} + 10$$

$$c^2 = 5^2 + 9^2$$

$$= 25 + 81$$

$$= \sqrt{106}$$



$$\frac{a + a - b}{2} = h$$

$$\frac{2a - b}{2} = h$$

$$x^2 = a^2 - c^2$$

$$\sqrt{(x-a)^2 + b^2} + \sqrt{(x-c)^2 + d^2}$$

$$= x - a + b + x - c + d$$

$$= \frac{2x - a + b - c + d}{1}$$

NOTE

Dinosaur



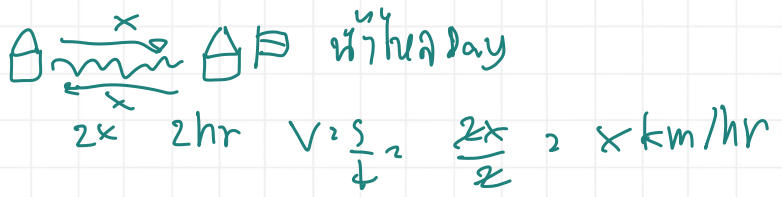
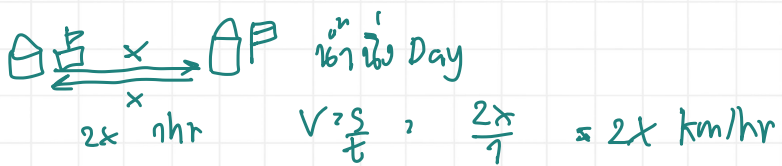
Lion



$$\begin{array}{ccc}
 dx^2 + bX + c & & \\
 \downarrow & & \downarrow \\
 b & & c \\
 2, 8 & & 8, 9
 \end{array}$$

$$\begin{array}{ll}
 X=2, X=4 & X=8, X=9 \\
 (X-2)(X-4) & (X-8)(X-9) \\
 X^2 - 10X + 8 & X^2 - 17X + 72
 \end{array}$$

$$\begin{array}{l}
 X^2 - 17X + 16 \\
 (X-16)(X-1) \\
 X=1, 16
 \end{array}$$



$$\begin{array}{l}
 \frac{x}{2} : \frac{2x}{2} \\
 1 : 2
 \end{array}$$

NOTE

Dinosaur



$$\sqrt[3]{\frac{1}{3}}$$

0.33

0.33

$$\sqrt{\frac{7}{2}}$$

0.707

$$\sqrt[3]{\left(\frac{2}{3}\right)^2}$$

0.76

Flan

Porcu

Laffe