$2+4+8+16+\dots+2x = 510$

$(2\times1)+(2\times2)+(2\times4)+(2\times8)$

$510 =$ $2^1+2^2+2^3$

$a_1 = 2$

$S_n = \frac{a_1(r^n-1)}{r-1}$

$510 = \frac{2(2^n-1)}{2-1}$

2^n:

$\frac{11^1}{1210} = 0\ R\ 11$

$\frac{11^2}{1210} = 0\ R\ 121$ loop 2

$\frac{11^3}{1210} = R\ 121$

$\frac{11,1}{2} = 55\ R\ 1$

1210) 1210 → 0

121 × 11 = 121 + 1210 = 1331

1210) 1331 → 1, 1331 − 1210 = 121

$\Delta y = m(\Delta x)$

$a_1+a_2+a_3+\dots+a_{19}+a_{20} = 13$ — ①

$a_1-a_2+a_3-a_4\dots+a_{19} = 17$ — ②

①+②: $2a_1+2a_3+2a_5+\dots+2a_{19} = 30$

$a_1+a_3+a_5+\dots+a_{19} = 15$

$a_2+a_4+\dots+a_{20} = -2$

$x+15 = 13$

$x = -2$

$\therefore \frac{-2}{15}$

a_2

a_1

a_{n-1}

$a_1 + a_2 = 10$

$a_{-1+2}+$

$a_{n+2}-a_n = 3$

$a_{1+2}-a_1 = 3$

$a_3 - a_1 = 3$

$a_1+2d-a_1 = 3$

$2d = 3$

$d = \frac{3}{2}$

$a_1+a_2 = 10$

$a_1+d+a_1 = 10$

$2a_1+\frac{3}{2} = 10$

$a_1 = \frac{17}{4}$

$S_n = \frac{n}{2}(2a_1+(n-1)d)$

$S_{40} = \frac{40}{2}\left(\frac{17}{2}+(39)\frac{3}{2}\right)$

$= \frac{40}{2}\left(\frac{17}{2}+\frac{117}{2}\right)$ $\frac{134}{2} = 67$

$= 20(67)$

$= 1340$

$(h,k) = (3,5)$

$a = 5$

$b = 3$

$c^2 = a^2-b^2$

$c^2 = 25-9$

$c = \pm4$

$F_1 = +4$ $F_2 = (3, 5-4) = (3,1)$

$C = (3, 5+4) = (3,9)$

(0, c)

(0, −c)

$(0, 5)$

$m = \frac{\Delta y}{\Delta x} = \frac{4}{3}$

$\Delta y = m(\Delta x)$

$y-5 = \frac{4}{3}(x-0)$

$3y-15 = 4x$

$4x-3y+15 = 0$

$d = \frac{|Ax+By+C|}{\sqrt{A^2+B^2}} = \frac{|4(3)+(-3)(1)+15|}{\sqrt{16+9}}$

$= \frac{12-3+15}{5}$ $\frac{27}{5}$

$= \frac{24}{5}$

$1-x < -\frac{3}{7} < 7-x$

$7-7x < -3 < 49-7x$

$7-7x < -3$ $\quad$ $49-7x > -3$

$7-7x = -3$ $\quad$ $49-7x = -3$

$10 = 7x$ $\quad$ $49+3 = 7x$

$\frac{10}{7} = x$ $\quad$ $52 = 7x$

$\frac{52}{7} = x \to 7$

$2 \leq x \leq 7$

$7-2+1 = 6$ ตัว

$y = f(x)$

$0 = f(x)$

$\log_5 x^{\log_5 x^2} = \log_5 \left(\frac{25}{x^3}\right)$

$(\log_5 x^2)(\log_5 x) = \log_5 25 - \log_5 x^3$

$(2\log_5 x)(\log_5 x) = \log_5 5^2 - 3\log_5 x$

$(2\log_5 x)(\log_5 x) = 2 - 3\log_5 x$

$\log_5 x = a$

$(2a)(a) = 2 - 3a$

$2a^2 - 2 + 3a = 0$

$2a^2 + 3a - 2 = 0$

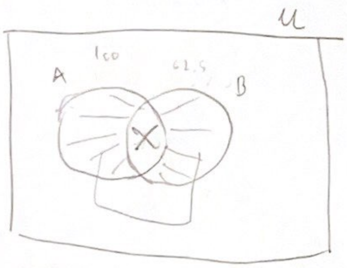
$(2a-1)(a+2) = 0$

$a = \frac{1}{2}$

$\log_5 x = \frac{1}{2}, -2$

$x = 5^{\frac{1}{2}}, 5^{-2}$

$= \sqrt{5}, \frac{1}{25} = \frac{\sqrt{5}}{25}$



$37.5x = 120$

$x = \frac{1200}{375} = 3.2$

$\frac{100}{12.5} = 80$

$n(A \cap B) = x$

$n(A) = 4x$

$\therefore n(B) = 8x$

$(4x-x) + (8x-x) = 120$

$3x + 7x = 120$

$10x = 120$

$x = 12$

$A \cup B = 120 + 12$

$= 132$

$N = \frac{8}{t+1}$

$N = \frac{8}{3+1}$

$= \frac{8}{4} = 2$ /ชม.

$N = \frac{8}{0+1} = 8 \to N = \frac{8}{2} \to N = \frac{8}{3}$

$N = 4$ $\quad$ $N = 2.66$

$\frac{10x}{14}$

ทอ x

ทอ 140 หุ 100

ทอ x หุ $\frac{100}{140} \cdot x = \frac{10x}{14}$

ทอ 50 หุ 100

ทอ $\frac{10x}{14}$ หุ $\frac{100}{50} \times \frac{10x}{14} = \frac{20x}{14}$

$50 = \frac{10x}{14}$

$100 = \frac{10x \times 100}{14 \cdot 80}$

$\frac{20(800)}{14}$ $\quad$ $\frac{8000}{7}$

$\frac{20x}{14}$

$\frac{10x}{7} = 8000$ $\quad$ $10x = 5600$ $\quad$ $x = 560$

$\to \frac{8}{4} = 2$

$N = 2$

$3 \to 6$

$1 \to$

$3 \to 6$

$1 = \frac{6}{3} = 2$ ร/ชม.

ทุน = 800

ขาย 140 ทุน 100

ขาย 50 ทุน $\frac{100}{140} \times 50 = \frac{250}{7}$

ขุด 50 = 400 บาท

$\frac{140}{100} \times 400 = 560$

ราคาตั้ง 100 ขาย 50

ตั้ง x ขาย $\frac{50}{100}x = \frac{x}{2}$

ทุน 100 ขาย 140

ทุน 50 ขาย $\frac{140}{100} \times 50$

ขาย 140 ทุน 100

ขาย $\frac{x}{2}$ ทุน $\frac{100}{140} \times \frac{x}{2} = \frac{50x}{140}$

$= \frac{5x}{14}$

$= \frac{5(800)}{14}$

$= \frac{4000}{14}$

$\frac{170}{100} \times 800$

1360

16-4

n P(A) = 16-4

170 100 800

170 $\frac{800}{100} \times 170 = 1360$

$\frac{65+62+60}{40} = \frac{187}{40} = 4.$

(-12)(12) =

4

$\frac{40+1}{2} = \frac{41}{2} = 20.5$

$\frac{62+60}{2} =$

n(A) = 4

n P(A) = 2^4 = 16

20 _

∅, {{∅}}, {0}, {{0}}, ∅

(4-5)(5-4) =

$2^4 = 16$

n P(A) = 16

6, 16, 26, 36, 46, 56, 66, 76, 86, 96, 60, 61, 62, 63, 64, 65, 67, 68, 69

$\frac{21!}{7!} + \frac{21!}{1!} = 8$

$\frac{21!}{81}$

$\frac{10}{99}$

ขาย 7 คน 29

63a + 14b + c = 486

315 + 64

490

431 + 379

378 + 182

441 + 28 = 469

972

วัน

6 ก+ข+ค = 1 งาน

1 ก+ข+ค = $\frac{1}{6}$ งาน

24 ก = 1 งาน

1 ก = $\frac{1}{24}$ งาน

1 ข+ค = $\frac{1}{6}-\frac{1}{24}=\frac{1}{8}$ งาน

4 ก+ข+ค = $4\times\frac{1}{6}=\frac{2}{3}$ งาน

$1-\frac{2}{3}=\frac{1}{3}$ งาน

$\frac{1}{8}$ งาน = 1 วัน

$\frac{1}{3}$ งาน = $\frac{1}{\frac{1}{8}}\times\frac{1}{3}=8\times\frac{1}{3}=\frac{8}{3}=2.XX$ วัน

ห.ร.ม. × ค.ร.น = ผลคูณ

= 50 × 600

= 30000 300 × 100 = 30,000

2 4 8 16 32

4, 8, 12, 16, 20,

66 + 24 = 90

68 × 12 = 136, 680

$\frac{639}{8}=7$

8 56 562

680 − 65 = 562

8×0+4

8×1+4

8×8+4

8×78+6

5×2

4×2+2

6×2+2

8×2+