$2+4+8+16+\dots$

$2(1+2+4+8+\dots) = 510$

$1+2+4+8+\dots = 255$

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

$255 = 2^n - 1$

$2^n = 256$

$n = 8$

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

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

$15 + (a_2 + a_4 + a_6 + \dots + a_{20}) = 17$

$(a_2 + a_4 + a_6 + \dots + a_{20}) + 15 = 17$

-2

$n = 40$

$a_1 + a_2 = 10$

$a_{42} - a_{40} = 3$

$a_1 + a_2 + a_3 + a_4$

$a_2 - a_1 = 3$

$a_1 + a_2 = 10$

$a_2 + a_3 = 13$

$a_4 - a_2 = 3$

$a_1 + 4 = 3$

$(g^{-1} \circ f^{-1})(x)$

$= g^{-1}(f^{-1}(x))$

$= 3x^2 + 1$

$f^{-1}(3x+1) = x$

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

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

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

$g(x) = \left(\frac{\sqrt{x-1}}{3}\right)^{-1}$

$\int_0^1 \frac{\sqrt{x-1}}{3} = \frac{1}{3}$

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

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

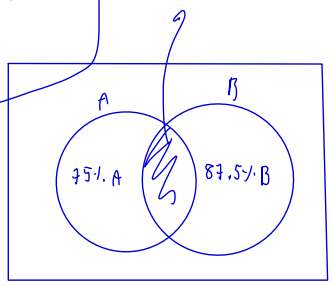
$7x-7 > 3 > 7x-49$

$x > \frac{10}{7}$ $\quad x < 7$

1.5

2

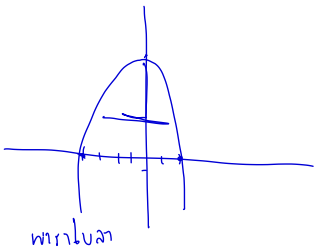
25% A 12.5 B



$\frac{75}{100}A + \frac{87.5}{100}B = 110$

$75A + 87.5B = 11000$

$y = mx + c$



พาราโบลา

$(x-h)^2 = -4c(y-k)$

$x^2 = -4c(y-16)$

$(4,0)$ $\quad 16 = -4c(0-16)$

$-1 = -4c$

$c = \frac{1}{4}$

$y = -4c(-16)$

$c = \frac{91}{4}$

$= \frac{91}{7}$

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

$= \frac{8-N}{N}$

$N = 2$

$P = \frac{\Delta(C)}{\Delta(T)}$

$= \frac{3}{\left|\frac{8}{5} - \frac{8}{3}\right|}$

$= \frac{24-40}{15}$

$= \frac{91}{15}$

$= 15$

$N = \frac{8}{5}$

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

$(50)(600) = ab$

$ab = 30000$

$10 \quad 10000$

$10 \quad 1000$

$10 \quad 100$

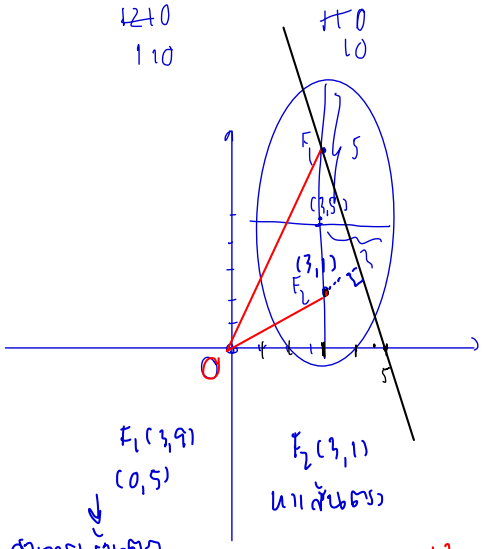
$10 \quad 10$

$2 \quad 5 \quad 2 \quad 5$

$2 \quad 10 \quad 4 \quad 25$

$2 \cdot 3 \cdot 5$

$\frac{111}{1210} = \frac{111}{1210} = \frac{11(11)}{110} = \frac{11}{10}$



$F_1(3,9)$

$(0,5)$

$F_2(3,1)$

$\frac{(x-3)^2}{3^2} + \frac{(y-5)^2}{5^2} = 1$

$a = 5$

$25 - 9 = c^2$

$16 = c^2$

$c = 4$

$(2,4)$

$\frac{20}{24} = \frac{5}{6}$

$\frac{20}{21}$

$n(S) = 21 \times 20 = 420$

$P(A) = \frac{16}{21}$

$A = 4$

$A - P(A) = A - (P(A) \cap A)$

$P(A) \cap A$

$\emptyset$

$\{2\}$

$\{4\}$

$\{6\}$

$A - P(A)$

$= A - (P(A) \cap A)$

$= 4 - 3$

$= 1$

$P(A) - (A - P(A))$

$= \frac{16}{21} - \frac{1}{21}$

$= \frac{15}{21}$

$= \frac{5}{7}$

$m = \frac{y_2 - y_1}{x_2 - x_1}$

$= \frac{5-9}{0-3}$

$= \frac{-4}{-3}$

$= \frac{4}{3}$

$y = mx + c$

$y = \frac{4}{3}x + c$

$5 = \frac{4}{3}(0) + c$

$c = 5$

$y = \frac{4}{3}x + 5$

$3y = 4x + 15$

$0 = 3y - 4x - 15$

$d = \frac{|3(1) - 4(3) - 15|}{\sqrt{9+16}}$

$= \frac{24}{5}$

-27

$3 - 12 - 15$

ตัวอย่างเท่านั้น

1 8 6

5 15 10

7 x 9

16

_ E _ _

6 10 18 30 46 66

4 8 12 16 20 24

8 56 562

4 12 68 630

9 18 14 28 24 48

5 ×2 10 ×2 20

1 3 7 15 31

62

10 14 19 27 44

5 7 4 8 3

+2 -3 +4 -5 +6

ดำ ดำ → นาร

ขาว ขาว → ดำ

ดำ - ขาว → นารบ

ขาว - ดำ → นาย

ดำหลัง → ขาว

14

	เจริญงาน	ชอบ	แนนวคง	ภูเก็ต	แปลง
มะนาว	✓	✓	—	—	✓
มะพร้าว	✓	✓	—	—	—
มะเฟือง	—		✓	✓	✓
มะม่วง	—		✓	✓	

		เด็ก	กลาง	ใหญ่
กก	ภูฟ้า	✓	X	X
	ผา	X	✓	
	เขา	X		
เสือ	1	X	X	✓
	2			X
	3	X	✓	X
ถถ	1	X	✓	X
	2		X	
	3		X	

A D G

5(X) : 0.5(1)

X = 0.5 / 5

0.1

S V

1 / 1 ×15 × 30

15

1/2 · 30 × 12

180 + 720 + 180 = 28

v เฉลี่ย = 1080 / 120

5 640

64

2

2 t/t/2 = 640 / 5

2 = 128

7 = T / 4.5 × 10^5

C F D B E A G

1 2 3 4 5 6 7

49

0.9259 × 360

ml 4

341.25

A 22.16 บก

40.56 อ่าน

27.31 เดิน