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

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

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

$$-255 = 1-2^n$$

$$2^n = 256$$

$$n = 8$$

$$\frac{a_1(1-r^{20})}{1-r} = 13$$

$$a_1(1-r^{20}) = 13-13r \quad -①$$

$$\frac{a_1(1-r^{20})}{1+r} = 17$$

$$a_1(1-r^{20}) = 17+17r \quad -②$$

① = ②

$$17+17r = 13-13r$$

$$30r = -4$$

$$r = -\frac{2}{15}$$

$$\frac{(x-3)^2}{9} + \frac{(y-5)^2}{25} = 1$$

$$\frac{9-5}{3-0} = \frac{4}{3}$$

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

$$3y-15 = 4x$$

$$4x-3y+15 = 0$$

$$d = \frac{|4(3)-3+15|}{\sqrt{4^2+(-3)^2}}$$

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

$$= 4.8$$

$1210 = 11 \times 11 \times 10$

$11^{109} = 10(9) + 1$

$11^{111} = 1210(9) + 121$

Ans 121

$1 - x < -\frac{2}{9} < 7 - x$

$1 < x - \frac{2}{9} < 7$

$1\frac{2}{9} < x < 7\frac{2}{9}$ $\Rightarrow$ 6

$f(x) = k(x+4)(x-2)$

$F(0) = k(4)(-2)$

$16 = -8k$

$k = -2$

$f(x = -2(x^2 + 2x - 8)$

$= -2x^2 - 4x + 16$

$a = -2$

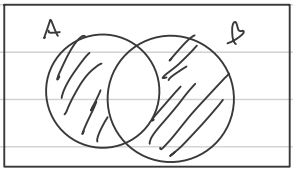
$b = -4$

$c = 16$

$\frac{4ac - b^2}{4a} = \frac{16 - (-4)^2}{-8}$

$= 18$

$n(A \cap B) = x$; 25% $\Rightarrow n(A) = 4x$



12.5% $\Rightarrow n(B) = 8x$

$(A - B) \cup (B - A) = (4x - x) + (8x - x) = 120$

$3x + 7x = 120$

$x = 12$

$\therefore n(A \cup B) = 120 + 12$

$= 132$

$$\lim_{h \to 0} \frac{N(t+h) - N(t)}{h}$$

$$\frac{\frac{8}{(t+h)+1} - \frac{8}{t+1}}{h}$$

$$\frac{8}{h}\left(\frac{1}{t+h+1} - \frac{1}{t+1}\right)$$

$$\frac{8}{h}\left(\frac{(t+1) - (t+h+1)}{(t+h+1)(t+1)}\right)$$

$$\frac{8}{h} \cdot \left(\frac{-h}{(t+h+1)(t+1)} \right.$$

$$\frac{-8}{(t+1)^2}$$

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

$$2a^2 = 2 - 3a$$

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

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

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

$$\log_5 x = \frac{1}{2} \text{ or } -2$$

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

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

ขาย $\frac{800 \times 140}{100} = 1120$

ลด 50% : $\frac{1120 \times 100}{50}$

$= 2240$

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

$\frac{62+68}{2} = 67$

$21 \times 20 = 420$

$8 \times 7 = 56$

$\frac{56}{420} = \frac{2}{15}$

1 8 6

5 15 10

7 ? 9

— F — —

4 8 12 16 20

2 4 8 16 32

5 7 4 8 3

+2 −3 +4 −5 +6

ทาว	ม่วง	เฟือง	พอ้าว
ซ	น	น	ข
ส	ก	ก	ล
ม		ม	

$$\bar{x} = \frac{2+2+3+3+4}{6} = \frac{17}{6}$$

$$\bar{x} = \frac{5+6+7+7+6+7+8}{7}$$

$$= \frac{49}{7}$$

$$= 7$$

6, 16, 26, 36, 46, 56, 66, 76, 86, 96
60, 62, 64, 68
10 + 4 = 14

6 → 1

1 → $\frac{1}{6}$

24 → 1

1 → $\frac{1}{24}$

1 → $\frac{1}{6} - \frac{1}{24} = \frac{1}{8}$

4 → $4 \times \frac{1}{6} = \frac{2}{3}$

$1 - \frac{2}{3} = \frac{1}{3}$

$\frac{1}{8}$ => 2 วัน

$\frac{1}{3}$ => $1 \times \frac{1}{3} \times 5$

2 3 วัน

$50 = 2 \times 5^2$

$600 = 2^3 \times 3 \times 5^2$