$$a_1 + a_2 = 10 \qquad \therefore \quad a_2 = 10 - a_1$$

$$a_{n+2} - a_n = 3 \qquad a_1 = 10 - a_2 \qquad\qquad a_6 - a_4 = 3$$

$$a_{1+2} - a_1 = 3 \qquad\qquad\qquad a_6 - 14$$

$$a_3 - 10 + a_2 = 3 \qquad a_4 - a_2 = 3 \qquad a_5 - a_7 = 3$$

$$a_2 + a_3 = 13 \qquad a_4 - 13 + a_3 = 3 \qquad a_5 - 16 + a_4 = 3$$

$$a_2 = 13 - a_3 \qquad a_3 + a_4 = 16 \qquad a_4 + a_5 = 19$$

$$a_7 = 16 - a_4 \qquad a_4 = 19 - a_5$$

$$10 - a_2 + a_2 + 16 - a_4 + a_4 + 22 - a_6 + a_6$$

$$\frac{11^{111}}{1110} = \frac{\cancel{11} \cdot 11^{109}}{\cancel{11 \times 10}}$$

$$= \frac{11^{109}}{10}$$

$$d = 6$$
$$n = 20$$
$$a_1 = 10$$

$$\frac{20}{2}(20 + (19)6)$$
$$10(20 + 114)$$
$$10(134) = 1340$$

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

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

$$-510 = 2 - 2 \cdot 2^n$$
$$510 = 2 \cdot 2^n - 2$$
$$2^n = 256$$
$$n = 8$$
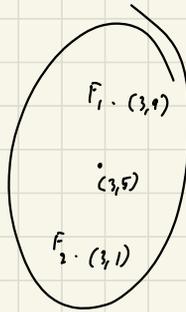
$$F_1 \cdot (3, 9)$$

$$(3, 5)$$

$$F_2 \cdot (3, 1)$$

$$3 \qquad 3 \qquad\qquad 0\ 5$$

$$\frac{9}{-3}$$

$$y = -\frac{9}{3}(x - 3) + 1$$

$$y = -\frac{9}{3}x + 5$$

$$3y = -9x + 15$$
$$0 = 9x + 3y - 15$$

$$39 \quad -15$$

$$\frac{12 + 27 - 15}{5} = \frac{29}{5}$$

$$(f \circ g)'(x) = 3x^2 + 1$$

$$y = 3x^2 + 1$$

$$x = 3y^2 + 1$$

$$\sqrt{\frac{x-1}{3}} = y = (f \circ g)(x)$$

$$f(g(x)) = 3(g(x)) + 1 = \sqrt{\frac{x-1}{3}}$$

lū $g(x) = A$

$$9(g(x))^2 + 6g(x) + 1 = \frac{(x)-1}{3}$$

$$27A^2 + 18A + 3 - A + 1 = 0$$

$$g(x) = ax + 1$$

$$27A^2 + 17A + 2 = 0$$

$$\int_0^1 g(x)\,dx = \left[\frac{a}{2}x^2 + x\right]_0^1$$

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

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

$$\frac{x-1}{9} = y = f(x)'$$

$1-x < -\frac{3}{7}$	$-\frac{2}{7} < 2 - x$		
$7 - 9x < -3$	$x < 7 + \frac{2}{7}$		
$-7x < -10$	$x < \frac{52}{7}$	$1 = ax + 1$	$\frac{g(x)-1}{3} = 3(g(x))^2 + 1$
$x > \frac{10}{7}$		$ax = 0$	$A - 1 = 9A^2 + 3$
		$a = 0$	$0 = 9A^2 - A + 4$
			$A = 1 \pm \sqrt{}$
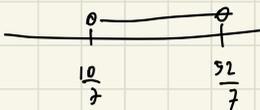
$$\begin{array}{c} \underset{\frac{10}{7}}{\overset{0}{\rule{3cm}{0.4pt}}} \quad \underset{\frac{52}{7}}{\circ} \end{array}$$

1.XX   7.XX

2, 3, 4, 5, 6, 7

$$a \ C = 120 \rightarrow a = \frac{120}{c}$$

$$\frac{25}{100} ab = \frac{12.5}{100} bc$$

$$ab_c = ?$$

$$2ab = bc$$

$$\sqrt{15} \approx 3.8$$

$$\frac{2(120)b}{c} = bc$$

$$10 \times 24$$

$$\therefore 120 + 3.8 = 123.8$$

$$c^2 = 240$$

$$2 \times 5 \times 2 \times 4 \times 3$$

$$b = \frac{25}{100} \left(\frac{\overset{30}{120}}{4\sqrt{15}} \right)$$

$$c = 4\sqrt{15}$$

$$= \frac{30 \times \sqrt{15}}{4_2 (40)} = \frac{\sqrt{15}}{2}$$
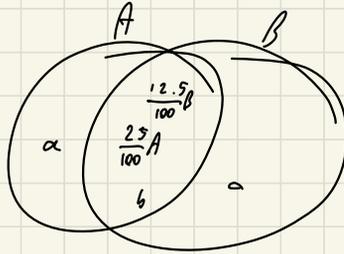
$$a = \frac{120}{4\sqrt{15}}$$

$$y = ax^2 + bx + c$$

$$-2(x^2 + 2x) + 16$$

$$-4x - 4$$

$$-2(x+1)^2 + 18$$

$$+4 + 16$$

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

$$x = -1$$

$$v = \frac{s}{f}$$

$$= -x^2 - 2x + 8$$

$$-2x - 2$$

$$0 = 16a - 9b + c$$

$$0 = 4a + 2b + c$$

$$-2(x+1)$$

$$8a + 4b + 2c$$

$$c = 16$$

$$24a + 3c = 0$$

$$-16 + 32 + 4b = 0$$

$$8a = -c$$

$$4b = -16$$

$$8a = -16$$

$$b = -4$$

$$a = -2$$

$$\frac{dN}{dt} = \frac{8d}{M\left(\frac{dt}{dt} + \frac{d}{dt}\right)}$$

$$dN = \frac{8d}{1 + \frac{d}{dt}}$$

$$\frac{dN}{dt} = \frac{8d - dN}{d} = 8 - N$$

$$dN + d\frac{dN}{dt} = 8d$$

$$\frac{dN}{dN} = \frac{8\frac{d}{dN}}{\frac{dt}{dN} + \frac{d}{dN}}$$

$$\frac{dt}{dN} + \frac{d}{dN} = \frac{8d}{dN}$$

$$t + 1 = 8$$
$$t = 7$$

$$\log n^{2\log_5 x} = \frac{2\log 5}{3 \log x} = \frac{2}{3}\log_x 5$$

$$2\log_5 x \,(\log x)\left(\frac{3}{2}\right)(\log_5 x) = 1$$

$$\frac{3(\log x)^3}{\log 5} = 1$$

$$\log_2 5 = A$$

$$(\log x)^3 = \frac{\log 5}{3}$$

$$\log x^{2A} = \log 25 - \log x^3$$

$$2A \log x = 2\log 5 - 3\log x$$

$$(2A + 3)(\log x) = 2\log 5$$

$$\left(\frac{2A+3}{2}\right) = A$$

$$2A+3 = 2A$$

100	150
150	200
	30 000

$$476$$
$$14\sqrt{171}$$
$$315$$

$$\frac{140}{100} \times 800^8 = 1120 \quad -$$
$$2290$$

| 6 | 6 | 9 |

$$67 \times 7$$
$$941 \quad 378 \quad 4\cancel{13}$$
$$378 \quad \frac{19x}{4} \quad 108$$
$$\frac{63x}{19} \quad 1\cancel{16}45 \quad \frac{19}{8}x \quad a=7$$
$$\frac{252}{630} \quad \frac{19}{112}x \quad b=$$
$$\frac{630}{882}$$

$$3$$
$$3$$
$$7$$

$$\frac{19x}{7}$$
$$98$$

1　　8　　6

5　　15　　10

7　　　　9

$$68\sqrt{562}$$

$$\begin{array}{r} 56 \times \\ 7 \\ \hline 392 \end{array}$$

8　　　　56