

$$f(x) = 2(x-5) + 6(x+5)$$

$$\lim_{x \rightarrow 5^+} = \lim_{x \rightarrow 5^-}$$

$$f(x) = 3x^4 \overset{+}{(-2x^3)} 6x^2 + \overset{+}{(6x+1)}$$

$$= 3x^4 - 2x(x^2 + 3x + 3) + 1$$

$$P_5 \quad O_3 \quad A_3$$

$$24 = \frac{3}{11}$$

$$\frac{24}{11} = \frac{3}{11}$$

$$x_1 + 2x_2 + 2x_3 = 4 \quad 2(x_2 + x_3) = 4 - x_1$$

$$x_1 + 2(x_2 + x_3) = 4$$

$$2x_1 - 2x_2 - x_3 = -3$$

$$2x_1 - (2x_2 + x_3) = -3$$

$$4x_1 + x_2 + 2x_3 = 3$$

$$4x_1 + (x_2 + 2x_3) = 3$$

$$7x_1 + x_2 + 3x_3 = 4$$

$$C = 6x_1 - x_2 + x_3$$

$$6x_1 = x_2 - x_3$$

$$12x_1 = (x_2 - x_3) / 2$$

$$f(x) = a[x+5] + b[x-5]$$

$$\lim_{x \rightarrow 5^+} = \lim_{x \rightarrow 5^-}$$

$$a(10) + b(\cancel{0}) = a(9) + b(-1)$$

$$a = -b$$

C

$$f(x) = 3x^4 - 2x^3 - 6x^2 + 6x + 1$$

$$3x^4 - 2x^3 - 15x^2 + 9x^2 + 6x + 1$$

$$2x^4 + (x^4 - 2x^3 - 15x^2) + (3x + 1)^2$$

$$2x^4 + x^4 - 2x^3 - 15x^2 + (3x + 1)^2$$

$$32 + (4)(-3) - 15 + 49$$

$$11 + 21 = 32$$

$$3x^4 - 2x^3 - 15x^2 + 6x + 1$$

$$48 - (16) - (24) + 12 + 1$$

$$60 - 40 +$$

$$A = 5$$

$$B = 3$$

$$C = 3$$

$$2b + 2c =$$

$$\textcircled{1} a + 2b + 2c = 4$$

$$2(b+c) = 4$$

$$2a - 2b - c = -3$$

$$2b + c = 3$$

$$\textcircled{2} 2a - (2b + c)$$

$$c = 1$$

$$\textcircled{3} 4a + b + 2c = 3$$

$$\cancel{4a} + b + \cancel{2c} + 1 = a + 2b + \cancel{2c}$$

$$3a + 1 = b$$

$$7a + 3 = 3b$$

$$7a + 3 = 8a + 3$$

$$a = 0$$

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

$$8a - 3b = -3$$

$$4a = 3b - 3$$

$$8a = 3(b-1)$$

$$f'(x) = \frac{f(x_i) - 0}{x_i - x_{i+1}}$$

$$x_{i+1} = x_i - \frac{f(x_i)}{f'(x_i)}$$

$$\begin{aligned} x_{k+1} &= x_k \left( \frac{x_k^3 - 5x_k + 7}{3x_k^2 - 5} \right) \\ &= \frac{3x_k^3 - 5x_k - (x_k^3 - 5x_k + 7)}{3x_k^2 - 5} \\ &= \frac{2x_k^3 - 7}{3x_k^2 - 5} \end{aligned}$$

$$\frac{x dy - y dx}{x^2} = \cos 2\left(\frac{y}{x}\right) dx$$

$$x_1 = x_2 f(x_2)$$

$$A \begin{cases} w6 \\ B7 \\ \frac{7}{15} \end{cases}$$

$$B \begin{cases} w8 \\ B10 \\ \frac{10}{18} \end{cases}$$

$$\frac{x dy - y dx}{x^2}$$

$$x \cdot \frac{d\left(\frac{y}{x}\right)}{dx} = \cos 2\left(\frac{y}{x}\right) dx$$

$$\frac{d\left(\frac{y}{x}\right)}{dx} = \frac{7}{x} \cdot \cos 2\left(\frac{y}{x}\right) dx$$

$$a \frac{dy}{dx} - \frac{y}{x} dx = \cos^2\left(\frac{y}{x}\right) dx$$

$$x = (a - by) \left(\frac{x^2}{2}\right)$$

$$y = (c/x - c) \left(\frac{y^2}{2}\right)$$

$$y \propto \frac{1}{x}$$

$$x \propto c$$

2, 3, 5  
✓ ✓ ✗

$$\Sigma F = 0$$

$$\Sigma F$$

$$\omega = \frac{d\theta}{dt}$$

$$\omega dt = d\theta$$

$$\omega \int dt = \int d\theta$$

$$\alpha = \frac{v^2}{r}$$
$$= \omega^2 r$$

$$\alpha = \frac{v^2}{r^2} r$$

$$\frac{\alpha}{r} = \frac{d^2\theta}{dt^2}$$

$$\alpha dt^2 = r d^2\theta$$

75 kg

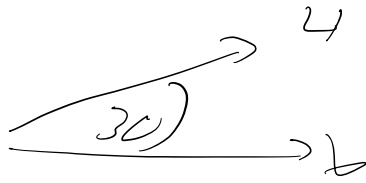
$$\mu N = mc\alpha$$

$$\mu(150) \cdot 40 = (15)(500)(6.24)$$

$$800\mu = 1200$$

$$\mu = \frac{1200}{800} = 1.5$$





$$A \times B = 4 \times 6 \times \frac{1}{2} \\ = 12$$

$$x = 3 \cos(2\theta - 4)$$

$$v = 8$$

$$\theta = 2 \quad x = 3 \cos 0$$

$$x = 3$$

$$v = 8$$