Math 174
$$HW$$
 44

Wednesday, 1 November, 2017 01:25 PM

1) $P_1 = (-1, 2)$
 $P_2 = (1, 3)$
 $P_3 = (2, -2)$

b) $P_4 = (-1, 2)$
 $P_5 = (2, -2)$

b) $P_6 = (2, -2)$

c) $P_7 = (-1, 3)$
 $P_8 = (2, -2)$

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c) $P_8 = (2, -2)$

d) $P_8 = (2, -2)$

e) $P_8 = (2, -2)$

f) $P_8 = (2, -2)$

c) $P_8 = (2, -2)$

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d) $P_8 = (2, -2)$

e) $P_8 = (2, -2)$

f) $P_8 = (2, -2)$

c) $P_8 = (2, -2)$

d) $P_8 = (2, -2)$

e) $P_8 = (2, -2)$

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f) $P_$

$$S_0 = \frac{1}{2}(x+1) - \frac{11}{2}(x+1)(x-1)$$

2

$$\longrightarrow$$
 $f(x) = \frac{9}{2} \times \frac{2}{4} \times \frac{39}{4} \times \frac{1}{4} \times \frac{$

· degree 3.

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$$\rightarrow f(x) = x^3 - 6x^2 - 11x + 6$$

· degree 4;

3)

$$\rightarrow f_3(x) = -17 x^4 + 72 x^3 - 96 x^2 + 36 x + 36.$$

$$f(x) = \frac{(x - x_0)(x - (x_0 + h))}{((x_0 + h) - (x_0 + h))} f(x_0 + h) + \frac{(x_0 - (x_0 + h))(x - (x_0 + h))}{(x_0 - (x_0 + h))} f(x_0) + \frac{(x_0 - x_0)(x_0 - (x_0 + h))}{(x_0 - (x_0 + h$$

$$= \frac{(x-x_0)(x-x_0-h)}{2h^2} f(x_0-h) +$$

$$= \frac{(x \times x)(x \times x)}{2n^{2}} + f(x + x) + \frac{1}{2n^{2}}$$
a)
$$= \frac{(x \times x)(x \times x)}{2n^{2}} + \frac{1}{2n^{2}} + \frac{1}$$

$$= f[x_0] + f[x_0, x_1](x-x_0) + f[x_0, x_1, x_2](x-x_0)(x-x_1)$$

$$- f(x) = -2 + 2(x+1) + \frac{1}{2}(x+1)(x-0)$$

$$-1 -2$$

$$0 0 \frac{1}{2} \frac{$$