

2.51
21

$$x(\sqrt{x-x^2})^4 + x^2\left(\frac{1}{x} + 2x^4\right)^8 + x^3\left(\frac{1}{\sqrt{x}} - 1\right)^{12}$$

x^3 x^2 x

$$\binom{4}{k} \left(x^{\frac{1}{2}}\right)^{4-k} (-x^2)^k$$

$$\frac{1}{2}(4-k) + 2k = 3$$

$$2k = 2$$

$k=1$

$$\binom{8}{l} (x^{-1})^{8-l} (2x^4)^l$$

$$-8+l+4l = 2$$

$$5l = 10$$

$$l = 2$$

$$\binom{8}{2} 2^2 = 112$$

$$\binom{12}{m} \left(x^{-\frac{1}{2}}\right)^{12-m} (-1)^m$$

$$\frac{m-12}{2} = 1$$

$$m = 14$$

$m=14$

112 x^4 $\binom{8}{2} 2^2$