$f(x) = 0 \rightarrow r = 1.36523$

$f(x) = x^3 + 4x^2 - 10$

$x - f(x) = x$

$\Rightarrow g(x) = x$

$\Rightarrow g(x) = x - f(x) = x - x^3 - 4x^2 + 10$ ✓

n	a	b	c
0	1.5	1.5	1.5
1	-.87	1.28	1.37
2	6.73	1.40	1.365
3	-469	⋮	1.36523
4	1×10^8	1.365	

(a)

$x^3 + 4x^2 - 10 = 0$

$\Rightarrow 4x^2 = 10 - x^3$

$\Rightarrow \boxed{x = \frac{1}{2}\sqrt{10 - x^3} = g(x)}$ (b)

(c) $f(x) = 0$

$\Rightarrow \frac{f(x)}{f'(x)} = 0$

$\Rightarrow x - \frac{f(x)}{f'(x)} = x$

$g(x)$

(c) $g(x) = x - \frac{x^3 + 4x^2 - 10}{3x^2 + 8x}$ ✓