4. The two parts of this problem are not related to each other.

(a) (6 points) Let $h(x) = x^3 - 3x^2 - 6x + 4$.

At what x-value(s) does the graph of
$$h(x)$$
 have a tangent line parallel to $y = 3x - 5$? der = $3x^2 - 3(3x^1) - 6$

$$V = 3x^2 - 6x - 6$$

$$= 3x^2 - 6x - 6$$

power rule

tan like Slope=3

$$3 = 3x^2 - 6x - 6$$

$$0 = 3x^2 - 6x - 9$$

$$0 = 3(x^2 - 2x - 3)$$

$$0 = 3(x+1)(x-3)$$

(b) (6 points) Let $g(x) = 3x^{\frac{3}{2}} + \frac{16}{\sqrt{x}} - 5$.

Find an equation for the tangent line to the graph of g(x) at x = 4.

find dor.

$$(3g(x)=?)$$

$$(4) y = y_1 = 4(x-4)$$

But lifted to snaw you my thought process