h) $2\log x - \log(x-16) = 2$

$$\log \frac{x^2}{x-16} = 2$$

$$10^{\log \frac{x^2}{x-16}} = 10^2$$

$$\frac{x^2}{x-16} = 10^2$$

$$x^2 = 10^2(x-16)$$

$$x^2 = 100x - 1600$$

$$x^2 - 100x + 1600 = 0$$

$$x = \frac{+100 \pm \sqrt{10000 - 4(1600)}}{2}$$

$$x = \frac{100 \pm \sqrt{10000 - 6400}}{2}$$

$$x = \frac{100 \pm \sqrt{3600}}{2}$$

$$x = \frac{100 \pm 60}{2}$$

$x_1 = 80$

$x_2 = 20$

i) $\log(5x-3)^2 + \log(2x+3)^3 = 2$

$\log(5x-3)^2 \cdot (2x+3)^3 = 2$

$\log(5x-3)^2(2x+3)^3 = 10^2$

$(5x-3)^2(2x+3)^3 = 10^2$