

Name: _____

Show work needed to justify your answer.

Date: _____

HW: # 11: Math IBSL - Standard 11 - Solve Quadratic Equations by Factoring

5 points

1. Solve by factorization:

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

b $3x^2 + 5x - 12 = 0$

2. Solve by factorization:

a $x^2 - x - 20 = 2x + 8$

b $2x^2 - 3x - 8 = -x^2 + 2x$

d $3x(x + 5) = -(x + 5)$

f $x + 8 = \frac{-15}{x}$

3. Let $f(x) = x^2 - 2$, $g(x) = 2x + 1$ and $h(x) = x^2 + 5x + 3$.

a Show that $(f \circ g)(x) = 4x^2 + 4x - 1$.

b Find the values of x for which $(f \circ g)(x) = h(x)$.

