

**Formative Assessment #12** – Proving Functions are Inverses

**RF3.7: I can prove using composite functions if two function are inverses of each other.**

Show algebraically that  $f$  and  $g$  are inverse functions.

a)  $f(x) = -6x + 3$


$$g(x) = \frac{3-x}{6}$$

b)  $f(x) = 2x^3 - 6$

$$g(x) = \sqrt[3]{\frac{x+6}{2}}$$

c)  $f(x) = \frac{2}{x-3}$

$$g(x) = \frac{2+3x}{x}$$

Code(s)	Learning Categories							 Assessed by:
RF3.7	a)	EH	EL	AH	AL	NH	NL	
	b)	EH	EL	AH	AL	NH	NL	
	c)	EH	EL	AH	AL	NH	NL	
<b>Notes</b>								