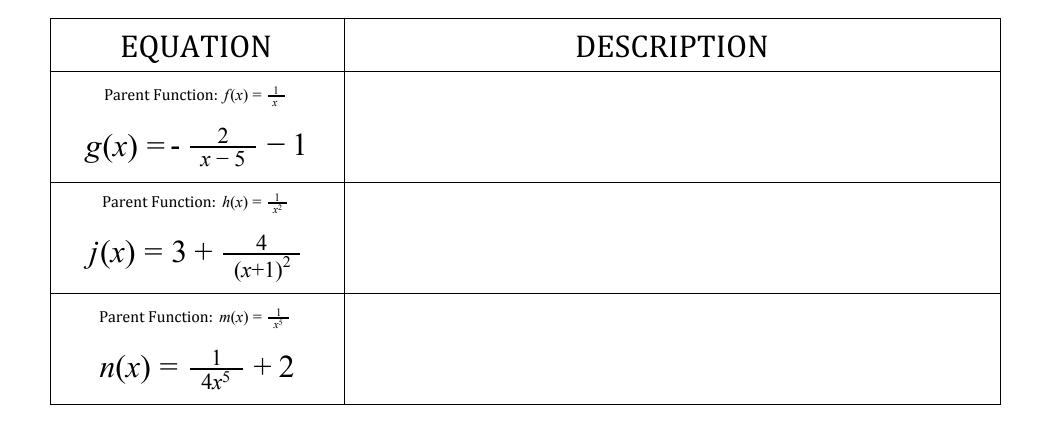
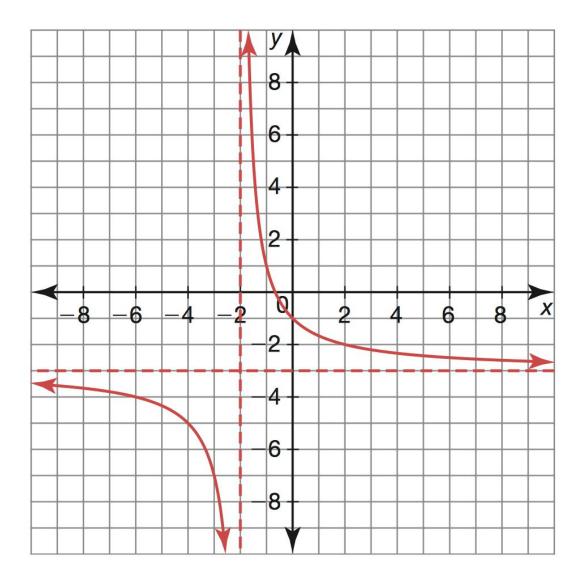
Station 1: Average Cost

A local artist sells handmade clocks. He bought machinery for \$1500 and spends \$40 on materials for each clock he makes. How many clocks should the artist make to achieve an average cost of \$100 per clock?

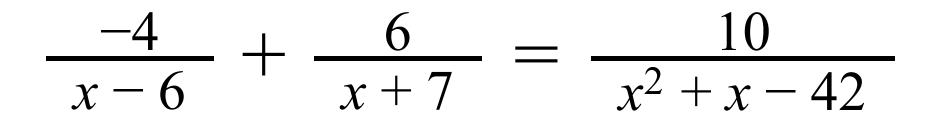
Station 2: Transformations of Rational Fns



Station 3: End & Middle Behavior

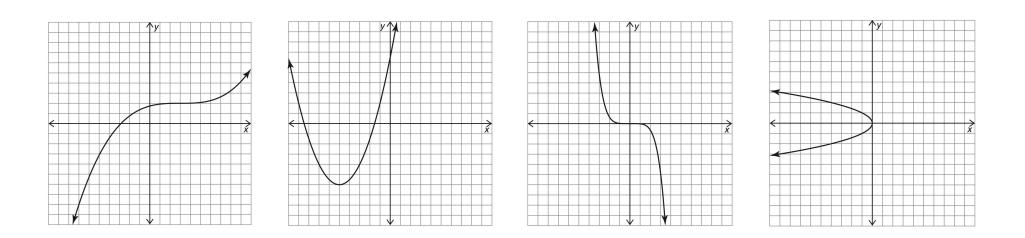


Station 4: Solving Rational Equations



Station 5: Invertible Functions

Which of the following are invertible? Explain why or why not.



Station 6: Transformations of Radical Fns

EQUATION	DESCRIPTION	
	$y = \sqrt{x}$ was translated down 10 units and 6 units to the right	
	$y = \sqrt[3]{x}$ was horizontally compressed by a factor of 1/5, reflected across the <i>x</i> -axis, and translated up 7 units	
	$y = \sqrt[8]{x}$ was vertically stretched by a factor of 3, translated 10 units to the left, and translated 4 units down	

Station 7: Transformations of Trig Fns

EQUATION	DESCRIPTION	
Parent Function: $c(x) = sin x$		
$d(x) = \frac{1}{2}sin(3x + \frac{\pi}{6}) + 4$		
Parent Function: $r(x) = \cot x$		
$s(x) = 2 - 5cot(\frac{x}{4} - \frac{3\pi}{8})$		
Parent Function: $w(x) = \sec x$		
$u(x) = sec (2x + \frac{3\pi}{2}) - 5$		

Station 8: Domain & Range

FUNCTION	DOMAIN	RANGE
$h(x) = \csc x - 2$		
$j(x) = \sqrt{x+5} - 1$		
$k(x) = \sqrt[3]{7x+2}$		