Name	

Determine whether the function is odd, even or neither.

1)
$$f(x) = 5x^3$$

 $f(-x) = 5(-x)^3$
 $= 5(-x^3)$
 $= -5x^3 \neq f(x)$ Para $= -f(x)$ [See]

2)
$$f(x) = 4x^2$$

 $f(-x) = 4(-x)^2$
 $= 4x^2 = f(x)$ [EVEN]
 $\neq -f(x)$

$$3) y = \frac{1}{(x+7)} - 2$$

$$1 + 7$$

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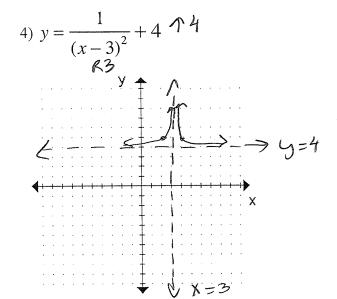
$$4 + 7$$

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$$4$$



a) Identify any symmetry Point (-7,-2)

a) Identify any symmetry Line X = 3

b) Identify asymptotes

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c) State Domain & Range

5=4 c) State Domain & Range

d) Describe transformation from the parent function

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5) The parent function $y = x^2$ has been transformed by $s(x,y) = \left(\frac{x}{4}, 2y\right)$
a) Write the equation for the image. $\frac{y}{2} = (4x)^2$
b) Describe the transformation in words of the parent function mapped onto the image
Vertical Stretch by 2 Horizontal Shrink by 1/4
6) The parent function $y = x $ has been transformed by $s(x,y) = \left(5x, \frac{y}{x}\right)$

non zonta		1	
6) The parent function $y = x $	has been transformed by $s(x,y) =$	$= \int 5x,$	$\frac{y}{6}$

a) Write the equation for the image.
$$69 = \frac{x}{5}$$

b) Describe the transformation in words of the parent function mapped onto the image.

7) The parent function
$$y = \sqrt{x}$$
 has been transformed by $s(x,y) = (9x, 3y)$

a) Write the equation for the image.
$$\frac{5}{3} = \sqrt{\frac{x}{9}}$$

b) Describe the transformation in words of the parent function mapped onto the image.

9) The test scores of 10 students are given in the table below

	0) 1110) The lest scores of To students are given in the table below.									
ſ	Score	89	76	65	88	91	94	54	41	77	82
	(%)										

a) Find the mean score and standard deviation for this set of data. Round to three decimal places, if needed.

b) The teacher decides to curve the test scores by multiplying each score by 1.06. Give the mean score and standard deviation after the curve. Round to 3 decimal places, if needed.

c) How will the third quartile, minimum, and maximum be affected by the transformation in part b?