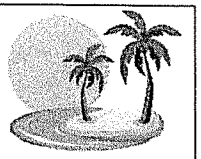
CARD 3



Given the parent function $f(x)$ below, use the description provided to write the new transformed function $g(x)$.

Parent Function $f(x)$	$f(x) = x^2$
Description of transformation	The parent function is compressed by a factor of $\frac{1}{3}$
Transformed function $g(x)$	$g(x) = ?$

PREVIOUS ANSWER

$g(x) = \sqrt{x-3}$

CARD 1

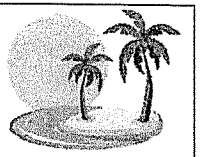
Given the parent function $f(x)$ below, use the description provided to write the new transformed function $g(x)$.

Parent Function $f(x)$	$f(x) = x^2$
Description of transformation	The parent function is translated 3 units up
Transformed function $g(x)$	$g(x) = ?$

PREVIOUS ANSWER

$g(x) = x + 3$

CARD 4



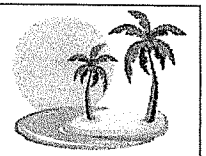
Given the parent function $f(x)$ below, use the description provided to write the new transformed function $g(x)$.

Parent Function $f(x)$	$f(x) = \lvert x \rvert$
Description of transformation	The parent function is translated 3 units left
Transformed function $g(x)$	$g(x) = ?$

PREVIOUS ANSWER

$g(x) = \sqrt{x} - 3$

CARD 2



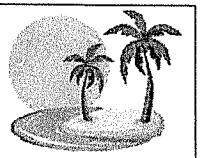
Given the parent function $f(x)$ below, use the description provided to write the new transformed function $g(x)$.

Parent Function $f(x)$	$f(x) = \sqrt{x}$
Description of transformation	The parent function is reflected across the x-axis
Transformed function $g(x)$	$g(x) = ?$

PREVIOUS ANSWER

$g(x) = \lvert x - 3 \rvert$

CARD15



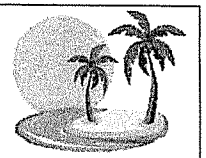
Given the parent function $f(x)$ below, use the description provided to write the new transformed function $g(x)$.

Parent Function $f(x)$	$f(x)=\sqrt{x}$
Description of transformation	The parent function is translated 3 units down
Transformed function $g(x)$	$g(x)=?$

PREVIOUS ANSWER

$$g(x)=\frac{1}{3}x^2$$

CARD13



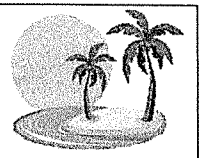
Given the parent function $f(x)$ below, use the description provided to write the new transformed function $g(x)$.

Parent Function $f(x)$	$f(x)=\sqrt{x}$
Description of transformation	The parent function is translated 3 units left
Transformed function $g(x)$	$g(x)=?$

PREVIOUS ANSWER

$$g(x)=x-3$$

CARD16



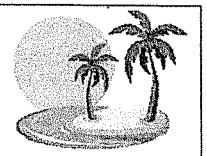
Given the parent function $f(x)$ below, use the description provided to write the new transformed function $g(x)$.

Parent Function $f(x)$	$f(x)=x$
Description of transformation	The parent function is translated 3 units up
Transformed function $g(x)$	$g(x)=?$

PREVIOUS ANSWER

$$g(x)=\sqrt{x+3}$$

CARD14



Given the parent function $f(x)$ below, use the description provided to write the new transformed function $g(x)$.

Parent Function $f(x)$	$f(x)=x$
Description of transformation	The parent function is translated 3 units down
Transformed function $g(x)$	$g(x)=?$

PREVIOUS ANSWER

$$g(x)=(x-3)^2$$

FAMILIES OF FUNCTIONS

Name: _____ Period: _____ Date: _____

Scavenger Hunt Answers

CARD 1	CARD 2
CARD 3	CARD 4
CARD 5	CARD 6
CARD 7	CARD 8

Scavenger Hunt Answers

CARD 9	CARD 10
CARD 11	CARD 12
CARD 13	CARD 14
CARD 15	CARD 16

STOP!!

COMPLETE SCAVENGER HUNT BEFORE GOING TO THE NEXT PAGE!!

FAMILIES OF FUNCTIONS

Name: **ANSWER KEY** Period: _____ Date: _____

Scavenger Hunt Answers

CARD 1 $g(x)=x^2+3$	**CARD 2** $g(x)=-\sqrt{x}$
CARD 3 $g(x)=\frac{1}{3}x^2$	**CARD 4** $g(x)=\lvert x+3\rvert$
CARD 5 $g(x)=3x$	**CARD 6** $g(x)=(x-3)^2$
CARD 7 $g(x)=\lvert x-3\rvert$	**CARD 8** $g(x)=(x+3)^2$
CARD 9 $g(x)=\sqrt{x-3}$	**CARD 10** $g(x)=\lvert x\rvert-3$
CARD 11 $g(x)=\frac{1}{3}x$	**CARD 12** $g(x)=-\lvert x\rvert$
CARD 13 $g(x)=\sqrt{x+3}$	**CARD 14** $g(x)=x-3$
CARD 15 $g(x)=\sqrt{x}-3$	**CARD 16** $g(x)=x+3$