## MCR 3U

## U4L1 Handout - Identifying Parent Functions

For each function listed, identify the **parent function**. For the tables, you may find it helpful to graph the points to determine the parent function.

1) 
$$g(x) = \frac{4}{5}x^2 - \frac{3}{5}x + \frac{1}{10}$$

quad.

2) 
$$h(x) = 3|x-2| + 5$$

absolute value

3) 
$$k(x) = \frac{3}{5}(x-2) + 8$$

linear

4) 
$$m(x) = 3\sqrt{4-x} + 2$$

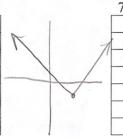
Square voot

-	36
-	36
	-36
_	36
	21

$\boldsymbol{x}$	n(x)
-4	9
-3	12
-2	18
1	-36
4	-9
6	-6



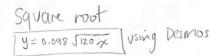
6)	
x	g(x)
-4	20
-2	14
0	8
2	-2
4	8
6	14

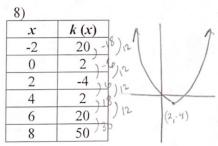


x	h(x)
0	0
2	1.5~\
8	3.0 %
18	4.5 ~
32	6.0,5
50	7.5 ^

reciprocal

absolute value





x	m(x)
-1	-3
2	4.5
11	12
26	19.5
47	27
74	34.5



x	n(x)
-5	n(x)
-1	22 )
3	15,-7
7	8,-1
11	1,-1
15	-6



quadratic

Square root

y=2.84 \( \frac{12.326(x+1)}{2} - 3 \)

sing permos

linear

1) quadratic 2) absolute value 3) linear 4) square root 5) reciprocal 6) absolute value 7) square root 8) quadratic 9) square root 10) linear