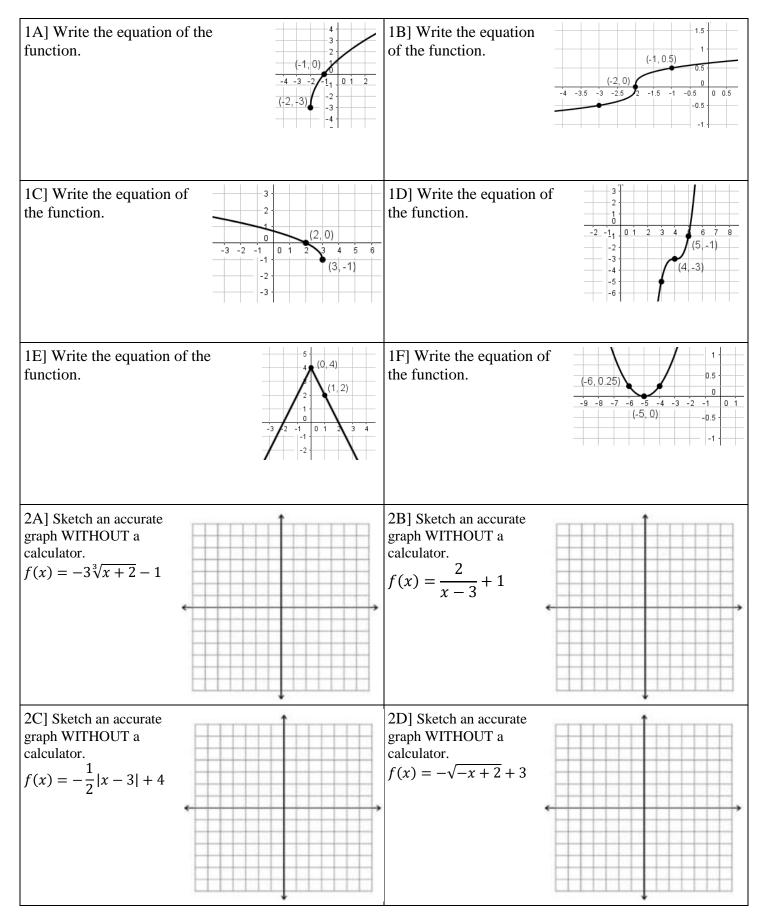
Name:

SPEED DATING: Parent Graphs & Transformations



3A] Write the equation of A floor function with no non-rigid transformations that has been reflected in the y-axis, translated 7 units to the left, and translated down 10 units.	3B] Write the equation of A function with domain $(-\infty, 2) \cup (2, \infty)$ and range of $(-\infty, -3) \cup (-3, \infty)$ that has been dilated by 4 and reflected in the x-axis.
3C] Write the equation of A radical function with domain $[-2, \infty)$ and range $(-\infty, 0]$ and a vertical shrink of ³ / ₄ .	3D] Write the equation of A radical with domain and range both \mathbb{R} that is always decreasing from left to right, has no dilation, and is centered at (5,-9).
3E] Write the equation of A parabola with a horizontal shrink of 2 that opens downward, has a range of $(-\infty, 12]$ and its vertex on the y-axis.	3F] Write the equation of A function whose vertex forms an acute angle that opens upward with its vertex at (-3, -1) and a vertical stretch of 8.
4A] If (2, 3) is a point on the graph of $f(x)$, find a point on the graph of $-f(x - 2) - 3$.	4B] If (-1, 3) is a point on the graph of $f(x)$, find a point on the graph of $3f(-x) + 2$.
4C] If (-1, 0) is a point on the graph of $f(x)$, find a point on the graph of $f\left(\frac{1}{3}(x+1)\right) - 2$.	4D] If (8, -10) is a point on the graph of $f(x)$, find a point on the graph of $\frac{1}{2}f(-(x-3))$.

5A] Describe the transformations in $f(x)$. f(x) = 2 - 3(x + 4) - 5 Standard Form: Type of Function:	5B] Describe the transformations in $f(x)$. $f(x) = 1 + \frac{1}{3}\sqrt{5-x}$ Standard Form: Type of Function:
Rigid transformations Non-rigid transform	
5C] Describe the transformations in $f(x)$. $f(x) = (2x - 4)^2 + \frac{1}{6}$ Standard Form: Type of Function:	5D] Describe the transformations in $f(x)$. f(x) = -2 + 3[x - 2 + 3] Standard Form:
Rigid transformations Non-rigid transform	
6A] Sketch both graphs and	6B] Sketch both graphs and
answer the questions beneath with "yes" or "no".	answer the questions beneath with "yes" or "no".
$f(x) = -\sqrt{x} + 1$ $g(x) = - x + 1$	$f(x) = \sqrt{-x} + 2$ $g(x) = (-x)^2 + 2$
 Do f(x) and g(x) have the same domain? Do f(x) and g(x) have the same range? 	 Do f(x) and g(x) have the same domain? Do f(x) and g(x) have the same range?
6C] Sketch both graphs and answer the questions beneath with "yes" or "no".	6D] Sketch both graphs and answer the questions beneath with "yes" or "no".
$f(x) = (x-2)^3$	f(x) = 3 x - 2
$g(x) = (x-2)^2$	g(x) = 3x - 2
 Do f(x) and g(x) have the same domain? Do f(x) and g(x) have the same range? 	 Do f(x) and g(x) have the same domain? Do f(x) and g(x) have the same range?

