Quiz 3

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September 19, 2014

Question 1 *Which function below describes the square root function flipped over the x-axis and shifted upwards by 3?*

A $y = \sqrt{x-3}$

B $y = \sqrt{x} + \sqrt{3}$

C $y = 3 - \sqrt{x}$

D $y^2 = x^2 + 3$

Question 2 *Choose the function whose range is all real numbers:*

A $y = x^3$

B $y = |x|$

C $ty = x^2 - x$

D $y = \begin{cases} x & x > 0 \\ \\ 0 & x \leq 0 \end{cases}$

Question 3 *The function $f(x) = 2x + 3$ is a _____ function.*

A *Piecewise.*

B *Linear.*

C *Constant.*

D *trigonometric.*

Question 4 *Choose the domain of the function $\dfrac{1}{3x-2}$.*

A *All real numbers except for $\frac{3}{2}$.*

B *All real numbers.*

C *All real numbers except for $\frac{2}{3}$.*

D *All non-negative real numbers.*