MARKS

NAME:

CLASS:

FUNCTION & GRAPHS: INVERSE FUNCTIONS

1 Find the inverse x^2-5 if it exists.

A $\sqrt{x+5}$ B $-\sqrt{x+5}$ C *no inverse* D $\sqrt{x-5}$

2 Find the inverse $x^2-5, x\geq 0$ if it exists.

A $\sqrt{x+5}$ B $-\sqrt{x+5}$ C *no inverse* D $\sqrt{x-5}$

3 Find the inverse $\sqrt{2x-9}$ if it exists.

A $f^{-1}(x)=\frac{x^2+9}{2}$ B $f^{-1}(x)=\frac{x^2-9}{2}$ C *no inverse* D $f^{-1}(x)=\frac{x+9}{2}$

4 Find the inverse $x^2+4x+3, x\geq -2$ if it exists.

A $f^{-1}(x)=2+\sqrt{x+1}$ B $f^{-1}(x)=-2+\sqrt{x+1}$ C *no inverse* D $f^{-1}(x)=-2-\sqrt{x+1}$

5 From question 4, find domain of f inverse.

A $(-1,\infty)$ B $[-2,\infty)$ C $(-2,\infty)$ D $[-1,\infty)$

6 Given that $f(x)=\frac{3x-1}{x+5}, x\neq -5$ .Find f^{-1}.

A $\frac{5x-1}{3-x}$ B $\frac{-5x+1}{3+x}$ C $\frac{5x+1}{3-x}$ D $\frac{5x+1}{3+x}$

7 Given that $f(x)=3x+5, g(x)=\frac{1}{x-4}$. .Find $(gf)^{-1}(x)$.

A $(gf)^{-1}(x)=\frac{5x-1}{3x}$ B $(gf)^{-1}(x)=\frac{5x-1}{3x}$ C $(gf)^{-1}(x)=\frac{1-x}{3x}$ D $(gf)^{-1}(x)=\frac{1+x}{3x}$

By Madam Ain KMPh

LIVEWORKSHEETS